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1980
Minnesota Health Statistics

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Minnesota Department of Health

MINNESOTA

HEALTH STATISTICS

1980

Published February, 1983

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FOREWORD

Minnesota Health Statistics 1980 was prepared by the Minnesota Center for Health Statistics within the Minnesota Department of Health and is the 30th consecutive summary of health-related statistics published by the Department. The document responds, in part, to the requirements of a contract held with the United States Department of Health, Education, and Welfare to establish and implement a cooperative health statistics program for Minnesota.

Minnesota Health Statistics 1980 contains several new features. Included are:

- Trend analyses of significant health-related phenomena
- Standardized mortality rates
- 1970 and 1980 Census data
- Occupational injury and illness statistics
- Statistics pertaining to health care costs

The statistical features mentioned above reflect a growing awareness that new health problems are emerging which have caused change in the way we define health status. Death once stalked the majority of Minnesota's population well in advance of three-score years, now we live on the average well beyond three-score years, thereby encountering accidental injuries, chronic disease and disability. Life-threatening infectious and communicable disease has all but disappeared, its place has been taken by chronic conditions such as heart disease, stroke, and cancer.

Those in public health are committed to the thesis that further improvements in the health of people in Minnesota will occur, but not because more medical care is used, thereby incurring more cost, rather because of a renewed commitment on the part of individuals to preventing disease and promoting health.

Much knowledge is at hand which can be applied to improvement in our health. More is needed however since the causes of chronic disease are more varied and complex than those of infectious disease. The statistics embedded in this report are offered in the hope that they will contribute to expansion of this knowledge base.

If you have suggestions concerning the report format, queries concerning the data formulae used in developing the statistics, or if you have requests for additional statistics please contact:

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Introduction

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TECHNICAL NOTES

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A. SOURCES OF DATA

Vital Events

Birth, death, and fetal death certificates are the source documents for data on vital events of Minnesota residents during the 1980 calendar year. A copy of each of these types of certificates is included as Figures 29-31, pages 163-165. Marriages and divorce data are compiled from transmittal documents which are received from each county.

The cut-off data for 1980 vital events data in this report was August 1, 1981. Any data pertaining to a 1980 event for which a certificate was filed after August 1, 1981 are not included in this report. It is possible that future data obtained from the MCHS may differ slightly from that which appears in this report. If this should occur, it is due to an update to the 1980 data year which was made after the August 1 deadline for this report.

Events relating to Minnesota residents which occurred in another state are included in this report.[1] The inclusion of these data are made possible by an agreement among all registration areas in the United States for resident exchange of copies of certificates.

Birth and fetal death certificates are usually completed by hospital personnel present at the delivery. Death certificates are usually completed by hospital personnel, physicians, and funeral directors.

Population

The 1980 population data used in this publication were collected by census enumerators during conduct of the 1980 Census of Population and Housing. Every person and housing unit was enumerated on a questionnaire that requested certain basic demographic information such as age, race, and relationship.

Abortions

The Minnesota Abortion Surveillance is a health monitoring system conducted by the Center for Health Statistics within the Minnesota Department of Health. Reporting forms are completed by abortion providers on a voluntary basis. Continuous facility recruiting has been conducted to enlist all possible sources of abortion data. Twenty five providers transmitted 1980 data. A copy of the reporting document is included as Figure 32, page 166.

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[1] No marriage and divorce reports are included in the interstate exchange program for vital events. Hence all marriage and divorce data are Minnesota occurrences.

The "testing phase" of data collection was conducted for three months of 1974 and results of the Surveillance were reported to the Center for Disease Control for their use as well as for dissemination to other agencies. However, 1975 marked the first complete year of the Minnesota based Surveillance. Since 1975 annual abortion data have been supplied to CDC and other federal, state, and private agencies.

Occupational Injuries and Illnesses

The basic source document for the Supplementary Data System (SDS) of occupational injuries and illnesses is the "First Report of Injury" submitted by employers to the Minnesota Department of Labor and Industries, Worker's Compensation Division. A copy of "First Report of Injury" is included as Figure 33, page 167.

The Supplementary Data System covers all employees in the state who fall within the scope of the Worker's Compensation Act. This excludes railroads in interstate commerce; certain farm operations; casual employment not in the usual course of trade business; and household workers earning less than $500 per quarter. Any work related illnesses or injuries which cause a loss of three or more days of work are required to be reported.

B. DATA QUALITY

Vital Events

The quality of data presented in this report is directly related to the completeness and accuracy of the information contained on the certificates. The MDH works to ensure that the information received is as complete and accurate as possible, and maintains two major program operations related to improving the quality of information received on certificates.

The query program is a system used to follow-back with hospital personnel, funeral directors, and/or physicians concerning incomplete or conflicting information. The follow-back contact is usually done by telephone and is based both on a manual and computer editing procedure.

The field program attempts to improve certificate information by educating the participants in the vital registration system, i.e., hospital personnel, funeral directors, physicians, etc., of the uses and importance of vital statistics data. The field program completes this mission by conducting seminars with various associations representing the types of individuals listed above. In addition to regularly scheduled seminars, the field representative makes site visits when problems with registration relating to a particular area or institution are discovered.

The National Center for Health Statistics (NCHS) monitors Minnesota's coding of statistical data. NCHS has established a two percent upper limit for coding difference involving any one data item, with the exception of cause of death. A five percent limit is established for this item due to the complexity of the coding process.

Please note that some of the tables depicting cause of death were modified slightly in 1979 to accommodate changes resulting from the adoption of a revised cause of death coding scheme -- The Ninth Revision of the International Classification of Diseases (ICD). The vast majority of cause of death categories will remain comparable with previous years' tables. However, changes in definitions of rheumatic heart disease, nephritis and nephrosis, and hypertensive heart between the Eighth Revision of the ICD and the Ninth Revision has caused noticeable differences in the numbers of deaths attributed to those categories between 1978 and 1980.

Population

This publication contains data from the 1980 Census of Population and Housing as released in Summary Tape File 1A (STF-1A) for Minnesota by the office of the State Demographer. While it is impossible to completely eliminate error from an operation as large and complex as the 1980 census, the Bureau of the Census attempted to control such error during collection and processing operations through record checks and re-checks, post-enumeration follow-back, processing quality control checks and installation of special coding procedures for nonresponses to questions on the census questionnaire.

All rates have been calculated using results of the 1980 census as denominator. The reader is thereby assured that highly accurate population data have been used for the first time since the 1970 census. (During the interval between 1971 and 1979 the MCHS estimated essential population features associated with Minnesota such as age cohort totals by county by sex.)

Abortions

Since, by definition, a voluntary surveillance is subject to partial and incomplete reporting of events, the abortion data collected do not imply the complete and comprehensive status of legal abortion in Minnesota. The quality of the data is dependent on the completeness and accuracy of information supplied by providers. The Center for Health Statistics conducts computer edits on reported data and coders make applicable changes for data entry and obvious coding errors. Queries are made to providers to correct selected errors and incomplete documents.

Occupational Injuries and Illnesses

Nature of Injury or Illness, Source of Injury or Illness, Type of Accident and Part of Body affected are coded according to ANSIZ 16.2--1962 "Method of Recording Basic Facts Relating to the Nature and Occurrence of Work Injuries." Occupations are coded using Census Bureau Codes. Industries are coded using four digit Standard Industry Classification Codes.

The quality of occupational injuries and illnesses estimates is related to the completeness and the accuracy of coding the "First Report of Injury" as well as the validity of the sampling technique employed in deriving the estimates. Extensive input editing by computer entry programs is performed on basic codes. Also, periodic reviews by Regional Bureau of Labor Statistics personnel are performed to audit the coding function.

It should be noted here that estimates of occupational injuries and illnesses in 1976 were based on actual records of 97 percent of "First Report of Injury." From 1977 to 1979 the estimate was based on a sampling ratio where each record was multiplied by its associated weight. In manufacturing and industries records, the associated weight was three and for all other industries it was nine. The associated weight for all the industries in 1980 estimates was three, hence each record was multiplied by three to provide the 1980 estimate.

C. GEOGRAPHIC ALLOCATION

Vital Events

Vital events can be classified geographically in two ways. The first way is by place of occurrence, i.e., the actual state, county and minor civil division in which the birth or death took place. The second and more customary way is by place of residence, i.e., the state, county and minor civil division stated to be the usual residence of the decedent in the case of deaths or of the mother in the case of a newborn. Fetal deaths and infant deaths, in cases where the child was never discharged from the hospital, are classified to the residence of the mother.

While occurrence statistics are accurate and have both administrative value and some statistical significance, residence statistics are by far the more useful tool when constructing health indices for planning and evaluation purposes. The statistics provided in this report are residence data unless otherwise stated.

Allocation of vital events by place of residence is sometimes difficult, because classification depends entirely on the statement of the usual place of residence furnished by the informant at the time the original certificate is completed. For various reasons, this statement may be incorrect or incomplete. For example, mailing addresses very often differ from the actual geographic residence.

Where the mailing address is a rural delivery number or when an unincorporated place is given as the place of residence, it is seldom possible to allocate the event to a specific township or the correct minor civil division, if this information is not supplied. How often incorrect information on residence is recorded is not known, but it is generally due to lack of information concerning the exact location of residence or misunderstanding of the question on the part of the informant.

This problem is applicable generally only to minor civil division level data. Resident counts for the state as a whole are, for all practical purposes, very accurate. County resident figures are substantially correct and can be used with a high degree of confidence.

Each of Minnesota's 87 counties is classified into one of eight health districts, the borders of which can be made to correspond to a Health Systems Agency (HSA). The Health Systems Agencies, established under PL 93-641, are regional agencies designated for geographic locations for the planning and development of health services. Some data presented in this report are aggregated by MDH health district. Figure 34 is a map showing the county distribution of the health districts and health service areas in Minnesota.

Population

Since the 1980 Census of Population and Housing involved on-site enumeration of both population and housing units, the error associated with allocation of event to area of residence is almost non-existent. County boundaries legally defined and in effect as of January 1, 1980 were recognized in the 1980 census. Census data are also available from the Demographer's Office for geographic areas not represented in this publication such as census tracts, townships, and enumeration districts.

Abortions

County of residence of the abortion recipient is recorded on the reporting form. The geographic data are only as accurate as the information given by the patient. There is no verification made on questions asked of the patient.

Since the Minnesota Surveillance began, Minnesota residents have comprised 78% to 87% of the total abortions performed at in-state facilities.

At this time MDH is unable to obtain detailed data on Minnesota residents receiving abortions in all other states. Therefore the Minnesota resident data compiled by the Center for Health Statistics include only those data on residents receiving abortions within Minnesota.

D. DEFINITIONS OF RATES

Absolute counts of health-related events do not readily lend themselves to analysis and comparison between years and between various geographic areas because of population differences. These demographic differences include total number, age and sex distributions, and ethnic or racial differentials. In order to assess the health status of a particular population at a specified time, the absolute number of events is converted to a relative number such as a probability of living or dying, a rate, a ratio, or an index. This conversion is made by relating the crude number of events to the living population at risk in a particular area at a specified time.

The following types of rates are used in this report:

CRUDE BIRTH RATE: Number of live births per 1,000 population.

FERTILITY RATE: Number of live births to mothers in a specified age group per 1,000 females aged 15-44.

NEONATAL DEATH RATE: Number of infants dying under 28 days of age per 1,000 live births.

INFANT DEATH RATE: Deaths under one year of age per 1,000 live births.

CRUDE DEATH RATE: Number of deaths per 1,000 population.

AGE SPECIFIC DEATH RATE: Number of deaths for a specified age group per 1,000 population in the same age group.

CAUSE SPECIFIC DEATH RATE: Number of deaths from a specified cause per 100,000 population.

ABORTION RATE: Number of abortions performed per 1,000 females aged 15-44.

OCCUPATIONAL INJURY AND ILLNESS RATE: See page 132.

Population

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Population of Minnesota

Minnesota's population growth between 1970 and 1980 was the slowest since the 1940's and the second slowest in the state's history. The state's growth rate of 7.1 percent during the 1970's was substantially less than the 11.5 percent growth experienced between 1960 and 1970 and the 14.5 percent growth recorded during the peak "baby boom" years of the 1950's. Minnesota's population experience is consistent with a national trend towards slower growth; the population of the United States grew by 19.0 percent during the 1950's, 13.3 percent during the 1960's, and 11.4 percent between 1970 and 1980. In terms of real numbers the population of Minnesota increased from 3,806,103 persons in 1970 to 4,075,970 persons in 1980, representing a change of 269,867 persons.

Minnesota's population change results from the combined effects of births, deaths, and migration. The number of births for the decade (April 1, 1970 to April 1, 1980) totaled 594,892 and the number of deaths totaled 332,493, resulting in a total natural increase of 262,399 persons.

Net migration, the number of "inmigrants" minus the number of "outmigrants," accounts for population change not due to natural increase. Minnesota historically has experienced a net outmigration of population, however between 1970 and 1980 a small net inmigration of approximately 8,600 people occurred. This relatively small number is significant as it represents a reversal from past decades of outmigration.

Minnesota's population of 4,075,970 represented 1.8 percent of the nation's population in 1980, a drop of .6 percent from 1970. Of that number 2,725,202 people, or 67 percent lived in urban[1] areas of the state and 1,350,768 people, or 33 percent lived in rural areas of the state.

Minnesota's population contained 1,445,222 households, up by over 25 percent from 1970. The number of persons per household was 2.74, a drop of .49 persons from the 1970 average of 3.19 persons per household. The rural area household was larger in 1980, 2.99 persons versus 2.63 persons in urban areas.

Slightly less than 96 percent of Minnesota's population was white. The composition of the balance of the population was: American Indian--0.85 percent, Vietnamese--0.14 percent, Spanish origin of any race--0.79 percent, Black--1.31 percent, and all other Ethnic or race--1.13 percent.

Distribution of Population by Age and Sex

During the 1970's, Minnesota also experienced considerable change in the age distribution of the population (See Figure 1 below). The "baby-

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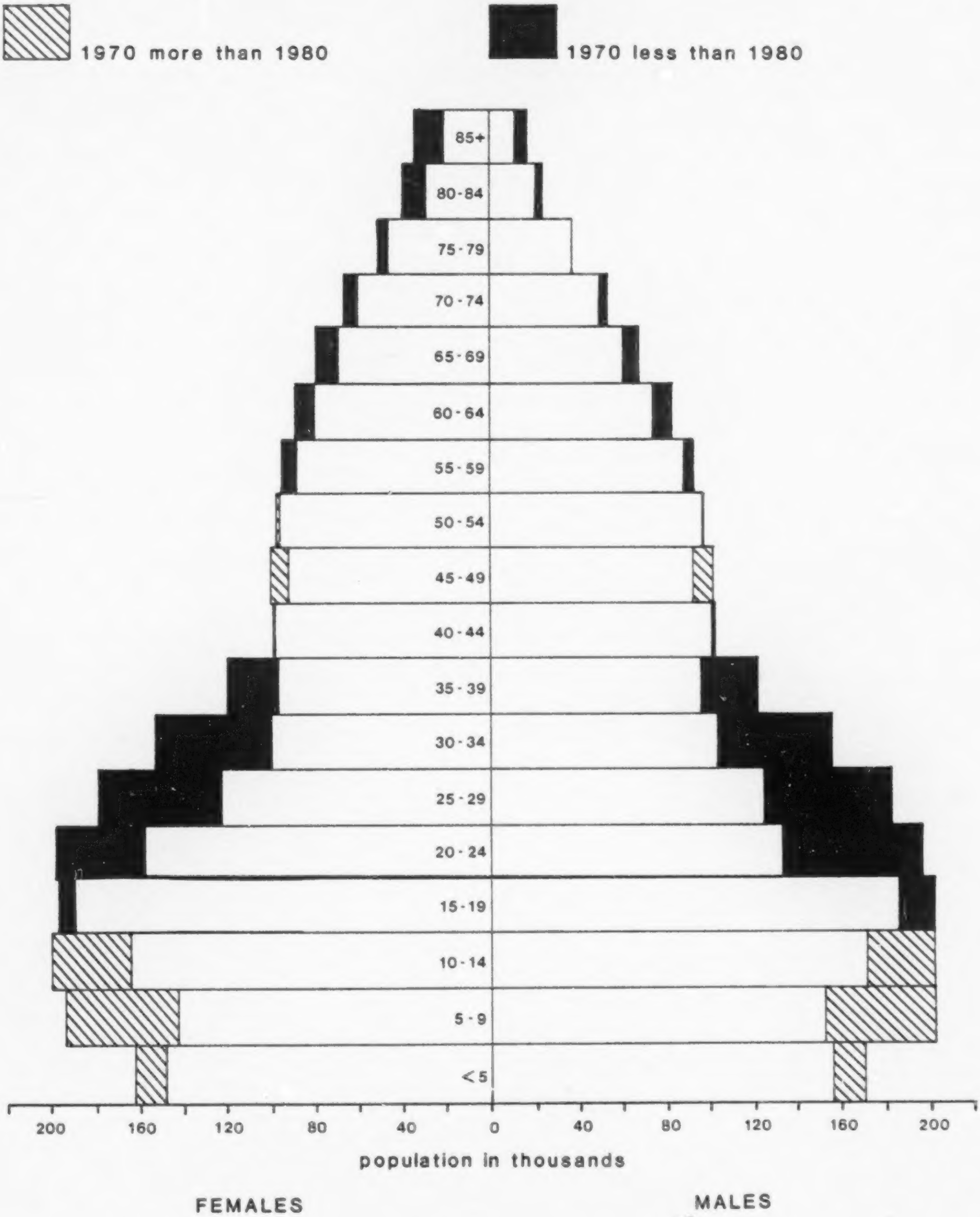
[1] In the 1980 Census, the Census Bureau defined the urban population as comprising all persons living in urbanized areas and in places of 2,500 or more inhabitants outside urbanized areas. The population not classified as urban constitutes the rural population.

Figure 1
Comparison of Populations by Age and Sex
Minnesota, Census, April 1, 1970 and 1980

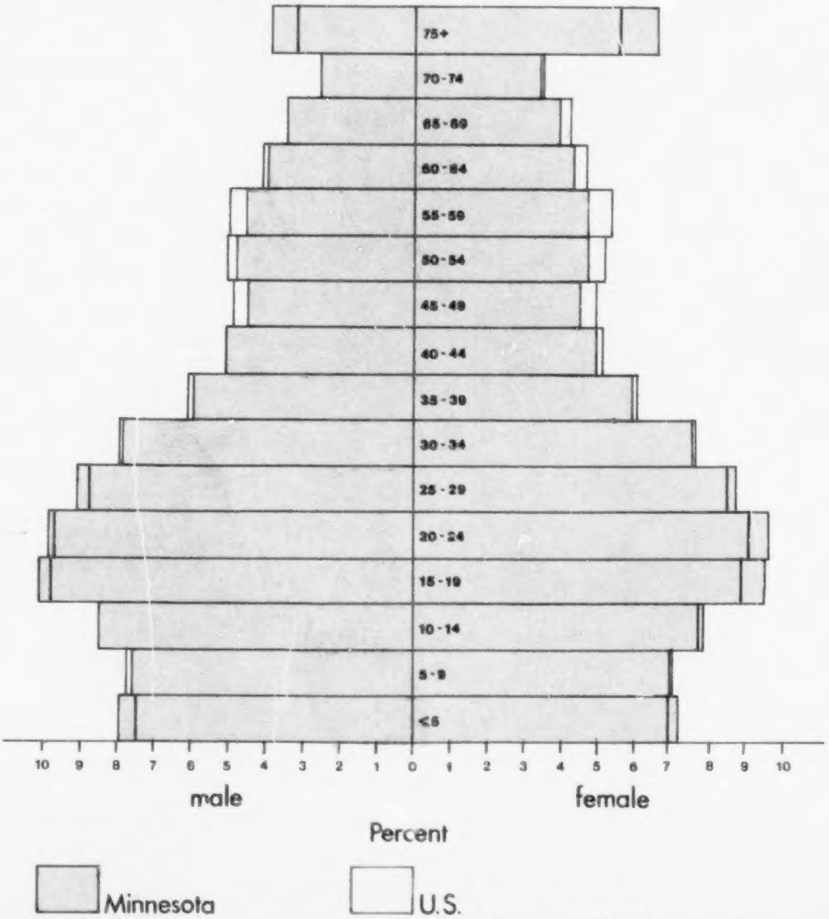


SOURCE: Office of the State Demographer, Minnesota Department of Energy, Planning, and Development, 1982. Analysis performed by the Minnesota Center for Health Statistics.

boom" generation, born primarily during the 1950's, aged into its twenties and early thirties. This aging resulted in a sizeable increase in the population between 20 and 35 years of age. The elderly population especially those over 85 years, also increased rapidly during the decade. At the same time, the population under age 15 declined substantially due to fewer births during the late 1960's and 1970's.

Figure 2 below compares population distribution by age between Minnesota and the U.S. (Also see Table 1 below). Minnesota's proportion of younger aged people was larger in 1980 than the nation at large; however the state possessed a slightly smaller proportion between the ages of 35 and 69. The greatest difference was found for the elderly aged 75 or above where Minnesota had a substantially larger proportion than the U.S.

Figure 2
Percent Distribution of Population by Age and Sex
Minnesota and the U.S., 1980



SOURCE: 1980 Census Data, Bureau of the Census, U.S. Department of Commerce, February, 1981. Analysis performed by the Minnesota Center for Health Statistics.

Table 1
POPULATION, PERCENTAGE DISTRIBUTION BY AGE AND SEX (PROVISIONAL)
MINNESOTA AND UNITED STATES, CENSUS, APRIL 1, 1980

Age Interval in Years	United States		Minnesota	
	Male	Female	Male	Female
All Ages	100.0	100.0	100.0	100.0
Under 5	7.6	6.9	7.9	7.2
5-9	7.8	7.0	7.6	7.0
10-14	8.5	7.7	8.5	7.8
15-19	9.8	8.9	10.1	9.5
20-24	9.7	9.1	9.8	9.6
25-29	8.8	8.4	9.1	8.7
30-34	7.9	7.6	7.8	7.5
35-39	6.2	6.1	6.0	5.9
40-44	5.2	5.1	5.2	5.0
45-49	4.9	4.9	4.6	4.5
50-54	5.1	5.2	4.8	4.7
55-59	5.0	5.3	4.6	4.7
60-64	4.2	4.7	4.0	4.3
65-69	3.5	4.2	3.4	3.9
70-74	2.6	3.4	2.6	3.3
75 and Older	3.2	5.5	3.9	6.4
Under 5	7.6	6.9	7.9	7.2
5-19	26.0	23.6	26.2	24.3
20-64	57.0	56.4	56.0	54.9
65 and Older	9.4	13.1	9.9	13.6

SOURCE: 1980 Census Data, Bureau of the Census, U.S. Department of Commerce, Feb. 1981. Analysis performed by the Minnesota Center for Health Statistics.

Changed Dependency Ratios

The dependency ratio is an indicator of the burden the age structure of a population places on society, hence is comprised of the dependent population (the young and the old) versus the working age population. It is recognized that some persons aged 15-64 years may be dependent on society for a variety of reasons while others younger than 15 years of age or older than 64 years of age are economically productive. However, the dependency ratio does provide an approximate measure of the number of additional persons that the population in the most economically active years must support out of current goods and services produced. The child dependency ratio is the number of persons under 15 years of age per 100 persons 15 to 64 years of age. The aged dependency ratio is the number of persons over 65 years of age per 100 persons aged 15 to 64.

Growth rate differences in various age groups account for dependency ratio change. In Minnesota, these differences during the 1970's resulted in an essentially unchanged aged dependency ratio and a reduced youth dependency ratio. This combined effect dramatically lowered the total Minnesota dependency ratio from 69.3 for every 100 persons aged 15 to 64 in 1970 to 53.2 for every 100 persons in 1980.

Table 2 below lists the child and aged dependency ratios by county.

Table 2
COUNTY DEPENDENCY RATIOS, MINNESOTA, 1970 AND 1980

	Child Dependency Ratio			Aged Dependency Ratio		
County	1980	1970	Change 1970-80	1980	1970	Change 1970-80
MINNESOTA	35.2	51.2	-16.0	18.0	18.1	-0.1
Aitkin	36.6	48.8	-12.1	33.0	35.2	-2.2
Anoka	43.0	69.2	-26.2	6.2	5.6	0.7
Becker	42.1	57.1	-15.0	24.3	24.6	-0.3
Beltrami	35.3	46.4	-11.1	16.6	17.0	-0.3
Benton	42.7	62.3	-19.6	17.6	16.8	0.8
Big Stone	37.1	52.6	-15.5	35.4	29.8	5.6
Blue Earth	29.2	39.3	-10.1	16.8	15.7	1.2
Brown	36.6	54.1	-17.5	25.3	23.2	2.1
Carlton	39.0	53.9	-14.9	20.2	17.9	2.3
Carver	40.0	59.8	-19.7	13.7	17.9	-4.2
Cass	38.5	48.8	-10.3	31.7	33.6	-1.9
Chippewa	37.6	50.7	-13.0	29.9	27.3	2.5

Table 2. COUNTY DEPENDENCY RATIOS, MINNESOTA, 1970 AND 1980 (CONT.)

	Child Dependency Ratio			Aged Dependency Ratio		
County	1980	1970	Change 1970-80	1980	1970	Change 1970-80
Chisago	44.6	56.8	-12.1	19.8	24.9	-5.1
Clay	29.7	44.7	-15.0	14.5	13.3	1.1
Clearwater	43.4	55.3	-11.9	30.1	32.5	-2.4
Cook	32.6	47.8	-15.3	23.2	20.3	2.9
Cottonwood	40.1	50.9	-10.8	32.2	27.5	4.7
Crow Wing	37.8	50.0	-12.2	25.5	24.5	1.0
Dakota	41.5	64.7	-23.2	8.9	9.0	0.0
Dodge	43.5	57.9	-14.5	20.9	24.3	-3.4
Douglas	37.0	48.9	-12.0	25.9	26.8	-0.8
Faribault	36.0	50.2	-14.2	30.3	27.6	2.7
Fillmore	39.1	51.6	-12.5	30.9	29.3	1.6
Freeborn	36.2	50.1	-13.9	24.1	20.4	3.8
Goodhue	38.1	51.4	-13.3	25.8	25.6	0.2
Grant	36.7	47.7	-11.0	37.2	32.7	4.5
Hennepin	28.4	45.4	-17.0	15.6	15.5	0.1
Houston	39.9	58.4	-18.6	24.3	24.5	-0.3
Hubbard	39.1	51.0	-11.9	27.2	30.1	-2.9
Isanti	45.1	55.9	-10.8	17.6	22.2	-4.6
Itasca	40.1	52.0	-11.8	19.8	19.3	0.5
Jackson	36.2	49.2	-13.0	26.4	26.0	0.4
Kanabec	42.6	56.7	-14.1	23.3	26.3	-3.0
Kandiyohi	35.9	47.7	-11.9	21.8	22.8	-1.0
Kittson	37.8	47.2	-9.4	32.2	26.8	5.4
Koochiching	39.2	52.4	-13.2	18.3	16.4	2.0
Lac Qui Parle	36.6	50.3	-13.8	32.7	31.9	0.7
Lake	34.6	56.5	-21.9	17.0	14.2	2.9
Lake of the Woods	36.8	48.5	-11.8	27.0	21.1	5.9
Le Sueur	42.4	58.5	-16.1	24.1	26.1	-2.0
Lincoln	40.2	51.3	-11.1	33.3	29.7	3.6
Lyon	36.6	49.7	-13.0	21.2	19.5	1.6
McLeod	40.3	50.4	-10.1	22.9	21.9	0.9
Mahnomen	49.2	63.9	-14.7	27.8	23.6	4.2

Table 2. COUNTY DEPENDENCY RATIOS, MINNESOTA, 1970 AND 1980 (CONT.)

County	Child Dependency Ratio			Aged Dependency Ratio		
	1980	1970	Change 1970-80	1980	1970	Change 1970-80
Marshall	42.7	55.8	-13.1	25.2	25.7	-0.6
Martin	36.1	49.3	-13.1	27.5	25.5	1.9
Meeker	41.1	52.4	-11.3	27.0	26.3	0.7
Mille Lacs	42.0	54.8	-12.7	28.1	28.0	0.1
Morrison	47.0	64.7	-17.7	23.9	25.0	-1.1
Mower	34.2	51.1	-16.9	25.1	18.6	6.5
Murray	40.2	55.5	-15.3	26.2	23.6	2.6
Nicollet	34.1	46.3	-12.2	15.7	15.8	-0.1
Nobles	37.3	53.8	-16.5	25.4	21.4	4.0
Norman	40.9	48.4	-7.5	36.6	33.6	3.0
Olmsted	35.3	54.9	-19.6	13.9	14.4	-0.5
Otter Tail	36.1	48.7	-12.6	29.8	28.8	1.0
Pennington	38.8	49.0	-10.3	23.4	23.8	-0.4
Pine	40.7	51.3	-10.7	25.1	28.3	-3.2
Pipestone	38.1	53.8	-15.7	31.3	27.5	3.8
Polk	38.1	51.9	-13.8	25.1	25.4	-0.3
Pope	38.5	50.7	-12.2	32.5	31.7	0.8
Ramsey	30.9	48.8	-17.9	17.2	16.7	0.5
Red Lake	45.5	62.6	-17.1	26.5	24.4	2.1
Redwood	40.5	56.1	-15.7	30.0	26.8	3.2
Renville	38.7	55.0	-16.3	29.1	28.7	0.5
Rice	34.3	46.6	-12.4	17.5	18.5	-1.0
Rock	40.2	52.8	-12.6	25.6	22.5	3.1
Roseau	43.1	55.8	-12.6	25.2	23.2	2.0
St. Louis	33.3	47.0	-13.7	20.8	19.6	1.2
Scott	44.4	67.6	-23.2	11.5	14.1	-2.6
Sherburne	45.5	55.5	-10.0	12.9	17.8	-4.8
Sibley	39.9	52.7	-12.8	27.6	24.1	3.4
Stearns	37.0	57.7	-20.7	14.8	16.0	-1.2
Steele	37.9	53.1	-15.2	19.9	19.9	0.0

Table 2. COUNTY DEPENDENCY RATIOS, MINNESOTA, 1970 AND 1980 (CONT.)

County	Child Dependency Ratio 1980	Child Dependency Ratio 1970	Child Dependency Ratio Change 1970-80	Aged Dependency Ratio 1980	Aged Dependency Ratio 1970	Aged Dependency Ratio Change 1970-80
Stevens	33.3	46.1	-12.8	21.9	20.0	1.9
Swift	40.7	53.5	-12.9	29.9	27.6	2.3
Todd	44.0	55.7	-11.7	26.4	27.5	-1.1
Traverse	36.2	55.1	-18.9	35.2	30.7	4.6
Wabasha	40.8	55.7	-14.9	25.6	27.6	-2.1
Wadena	42.5	57.6	-15.1	28.0	27.0	1.0
Waseca	39.2	54.1	-14.9	21.7	23.3	-1.6
Washington	42.3	68.4	-26.1	8.7	10.3	-1.5
Watonwan	36.1	49.2	-13.1	28.8	25.3	3.5
Wilkin	38.9	55.0	-16.1	25.6	23.8	1.8
Winona	32.0	43.8	-11.8	20.6	20.2	0.4
Wright	48.0	63.8	-15.8	17.0	21.3	-4.4
Yellow Medicine	35.9	51.1	-15.2	30.4	27.4	3.1

The child dependency ratio ranged from 28.4 in Hennepin County to 49.2 in Mahnomen County. This can be contrasted with the statewide ratio of 36.2 children per 100 persons aged 15-64. As the statistics indicate, every county experienced a substantial reduction in the child dependency ratio since 1970.

However, aged dependency ratios have changed very little since 1970. The ratio varied widely around the state, ranging from 6.2 aged persons per 100 persons aged 15-64 in Anoka County to 37.2 aged persons per 100 persons aged 15-64 in Grant County. The statewide ratio was 18.0 aged persons per 100 persons aged 15-64. Counties with high aged dependency ratios were concentrated in the north-central and western portions of the state while those with relatively low ratios tended to be clustered around the twin cities of Minneapolis and St. Paul.

A Comparison of Median Ages

Median age is that age at which half the population is older and half younger. The median age in Minnesota increased from 25.7 years in 1970 to 29.2 years in 1980. Since median age generally changes slowly among western societies, change of the magnitude encountered in the 1970's in median age of Minnesota's population can be termed very dramatic.

Table 3 below lists median ages of the states by Census region. Within the north-central region Minnesota is third youngest (North Dakota

Table 3
MEDIAN AGE: UNITED STATES AND EACH STATE, CENSUS, APRIL 1, 1980

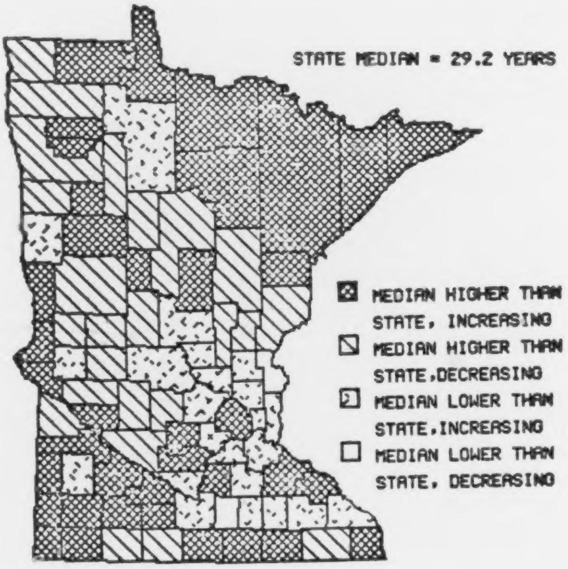
REGION, DIVISION AND STATE	MEDIAN AGE
UNITED STATES	30.0
NORTHEAST	
NEW ENGLAND	31.2
MAINE	30.4
NEW HAMPSHIRE	30.1
VERMONT	29.4
MASSACHUSETTS	31.2
RHODE ISLAND	31.8
CONNECTICUT	32.0
MIDDLE ATLANTIC	32.0
NEW YORK	31.9
NEW JERSEY	32.2
PENNSYLVANIA	32.1
NORTH CENTRAL	
EAST NORTH CENTRAL	29.5
OHIO	29.9
INDIANA	29.2
ILLINOIS	29.9
MICHIGAN	28.9
WISCONSIN	29.4
WEST NORTH CENTRAL	29.9
MINNESOTA	29.2
IOWA	30.0
MISSOURI	30.9
NORTH DAKOTA	28.3
SOUTH DAKOTA	28.9
NEBRASKA	29.7
KANSAS	30.1
SOUTH	
SOUTH ATLANTIC	30.7
DELAWARE	29.7
MARYLAND	30.3
DIST. OF COLUMBIA	31.1
VIRGINIA	29.8
WEST VIRGINIA	30.4
NORTH CAROLINA	29.6
SOUTH CAROLINA	28.2
GEORGIA	28.7
FLORIDA	34.7
EAST SOUTH CENTRAL	29.3
KENTUCKY	29.1
TENNESSEE	30.1
ALABAMA	29.3
MISSISSIPPI	27.7
WEST SOUTH CENTRAL	28.5
ARKANSAS	30.6
LOUISIANA	27.4
OKLAHOMA	30.1
TEXAS	28.2
WEST	
MOUNTAIN	28.0
MONTANA	29.0
IDAHO	27.6
WYOMING	27.1
COLORADO	28.6
NEW MEXICO	27.4
ARIZONA	29.2
UTAH	24.2
NEVADA	30.3
PACIFIC	29.8
WASHINGTON	29.8
OREGON	30.2
CALIFORNIA	29.9
ALASKA	26.1
HAWAII	28.4

SOURCE: "AGE, SEX, RACE, AND SPANISH ORIGIN OF THE POPULATION BY REGIONS, DIVISIONS, AND STATES: 1980," 1980 CENSUS OF POPULATION, SUPPLEMENTARY REPORTS, PC80-S1-1, BUREAU OF THE CENSUS, U.S. DEPT. OF COMMERCE, ISSUED MAY 1981.

is youngest at 28.3 years of age), however, across the nation Wyoming emerges with the youngest age at 27.1 years. In fact the states with the youngest median ages were clustered in the west and southwest.

Figure 3 below compares the 1980 median age of each county with the state's median age and indicates the direction of change since 1970. The median age ranged from a low of 24.4 years in Stearns County to a high of 37.9 years in Traverse County. Nearly two-thirds of the counties in Minnesota had a median age over thirty in 1980. The younger counties clustered in the rapidly growing suburban fringe of the Twin Cities, or were counties with large college populations. A number of relatively older counties in the central and northwestern portions of the state did experience a decline in median age between 1970 and 1980. This may be due to age-selective migration, an increase in births, or possibly some combination of these factors.

Figure 3
A Comparison of Median Ages
Across Minnesota Counties
April 1, 1980


STATE MEDIAN = 29.2 YEARS
▩ MEDIAN HIGHER THAN STATE, INCREASING
▧ MEDIAN HIGHER THAN STATE, DECREASING
⁘ MEDIAN LOWER THAN STATE, INCREASING
☐ MEDIAN LOWER THAN STATE, DECREASING

SOURCE: Office of the State Demographer, Minnesota Department of Energy, Planning, and Development, 1982.

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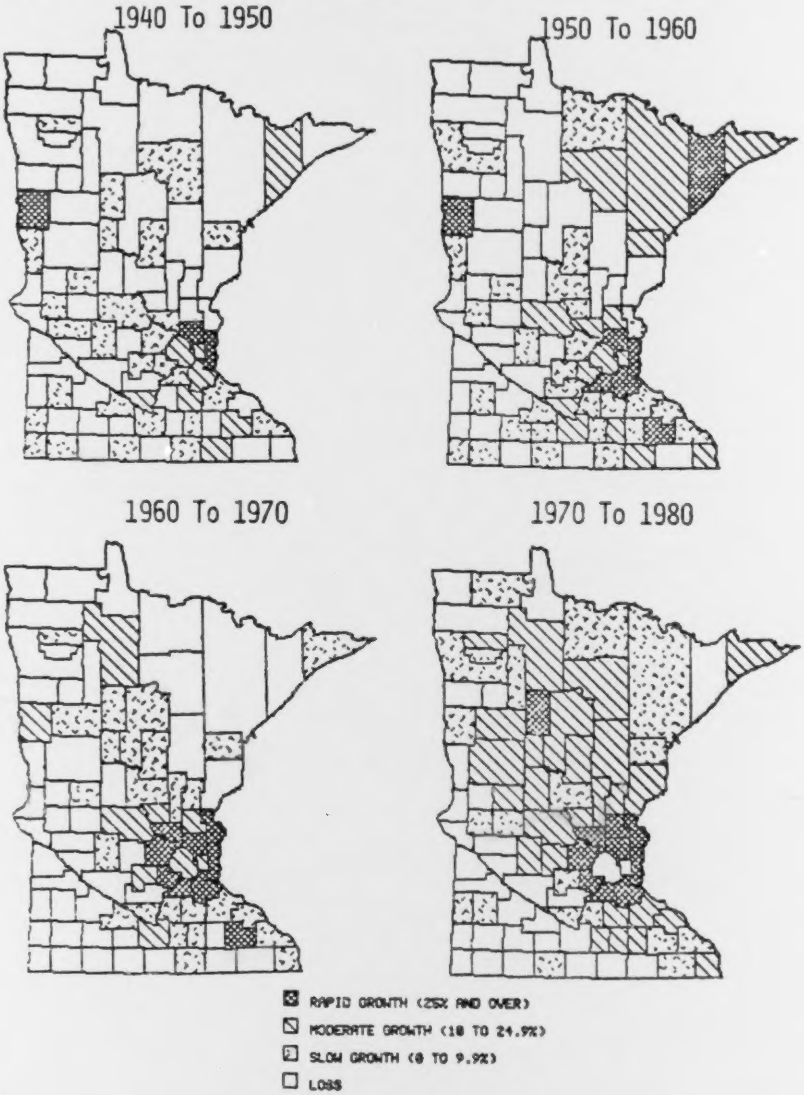
Change in distribution of the state's population, however, is not evenly distributed (See Figure 4 below). Population growth was most rapid in the outer suburbs of the Twin Cities area, and this ring of rapid growth has continually widened in the past thirty years. Substantial growth has also occurred in the lake and forest areas of north-central and northwestern Minnesota. However, population growth in the state's agricultural areas was much less rapid, with some areas of the state experiencing continued population loss since World War II. The cities of Minneapolis and St. Paul also lost population, as they have since the 1950's, but for the first time the area of population decline extended outward to include many of the inner Twin Cities suburbs.

Figure 4
Population Change in Minnesota Counties, 1940-1980


1940 To 1950
1950 To 1960
1960 To 1970
1970 To 1980
▩ RAPID GROWTH (25% AND OVER)
▧ MODERATE GROWTH (10 TO 24.9%)
▨ SLOW GROWTH (0 TO 9.9%)
☐ LOSS

SOURCE: Minnesota Department of Health,
Minnesota Center for Health Statistics

The number of Minnesotans living in cities of 20,000 or more grew by four percent to 1,730,554 during the 1970's, while the number of people living in cities under 2,500, townships, and unorganized territories increased by five percent. This marks a significant change from the 1960's, when the number of people living in cities of 20,000 or more grew by 22 percent while small cities (less than 2,500), townships, and unorganized territories lost two percent of their population. Overall, 42 percent of the state's population currently resides in large cities (20,000+), 24 percent in medium-sized cities (2,500 to 20,000), and 34 percent in small cities, townships, and unorganized territories.

1970 and 1980 Census of Population by County

Table 4 below displays total population by county for 1970 and 1980. Sherburne County experienced the greatest proportional increase within the state (63 percent), while Traverse County suffered the greatest population loss (11.4 percent). Counties with the largest proportional increases clustered around the twin cities of Minneapolis and St. Paul, those with the greatest proportional losses clustered along the northern and western boundaries of the state.

Table 4
A COMPARISON OF THE
1970 AND 1980 CENSUS OF POPULATION
FOR MINNESOTA COUNTIES

County	1980 Population	1970 Population	Percent Change, 1970 to 1980
Aitkin	13,404	11,403	17.5
Anoka	195,998	154,712	26.7
Becker	29,336	24,372	20.4
Beltrami	30,982	26,373	17.5
Benton	25,187	20,841	20.9
Big Stone	7,716	7,941	-2.8
Blue Earth	52,314	52,322	-
Brown	28,645	28,887	-0.8
Carlton	29,936	28,072	6.6
Carver	37,046	28,331	30.8
Cass	21,050	17,323	21.5
Chippewa	14,941	15,109	-1.1
Chisago	25,717	17,492	47.0
Clay	49,327	46,608	5.8
Clearwater	8,761	8,013	9.3
Cook	4,092	3,423	19.5
Cottonwood	14,854	14,887	-0.2
Crow Wing	41,722	34,826	19.8
Dakota	194,111	139,808	38.8
Dodge	14,773	13,037	13.3

Table 4. A COMPARISON OF THE 1970 AND 1980 CENSUS OF POPULATION FOR MINNESOTA COUNTIES (CONT.)

County	1980 Population	1970 Population	Percent Change, 1970 to 1980
Douglas	27,839	22,910	21.5
Faribault	19,714	20,896	-5.7
Fillmore	21,930	21,916	0.1
Freeborn	36,329	38,064	-4.6
Goodhue	38,749	34,804	11.3
Grant	7,171	7,462	-3.9
Hennepin	941,411	960,080	-1.9
Houston	19,617	17,556	11.7
Hubbard	14,098	10,583	33.2
Isanti	23,600	16,560	42.5
Itasca	43,006	35,530	21.0
Jackson	13,690	14,352	-4.6
Kanabec	12,161	9,775	24.4
Kandiyohi	36,763	30,548	20.3
Kittson	6,672	6,853	-2.6
Koochiching	17,571	17,131	2.6
Lac Qui Parle	10,592	11,164	-5.1
Lake	13,043	13,351	-2.3
Lake of the Woods	3,764	3,987	-5.6
Le Sueur	23,434	21,332	9.9
Lincoln	8,207	8,143	0.8
Lyon	25,207	24,273	3.8
McLeod	29,657	27,662	7.2
Mahnomen	5,535	5,638	-1.8
Marshall	13,027	13,060	-0.3
Martin	24,687	24,316	1.5
Meeker	20,594	18,387	12.0
Mille Lacs	18,430	15,703	17.4
Morrison	29,311	26,949	8.8
Mower	40,390	44,919	-10.1
Murray	11,507	12,508	-8.0
Nicollet	26,929	24,518	9.8
Nobles	21,840	23,208	-5.9
Norman	9,379	10,008	-6.3
Olmsted	91,971	84,104	9.4
Otter Tail	51,937	46,097	12.7
Pennington	15,258	13,266	15.0
Pine	19,871	16,821	18.1
Pipestone	11,690	12,791	-8.6
Polk	34,844	34,435	1.2

Table 4. A COMPARISON OF THE 1970 AND 1980 CENSUS OF POPULATION FOR MINNESOTA COUNTIES (CONT.)

County	1980 Population	1970 Population	Percent Change, 1970 to 1980
Pope	11,657	11,107	5.0
Ramsey	459,784	476,255	-3.5
Red Lake	5,471	5,388	1.5
Redwood	19,341	20,024	-3.4
Renville	20,401	21,139	-3.5
Rice	46,087	41,582	10.8
Rock	10,703	11,346	-5.7
Roseau	12,574	11,569	8.7
St. Louis	222,229	220,693	0.7
Scott	43,784	32,423	35.0
Sherburne	29,908	18,344	63.0
Sibley	15,448	15,845	-2.5
Stearns	108,161	95,400	13.4
Steele	30,328	26,931	12.6
Stevens	11,322	11,218	0.9
Swift	12,920	13,177	-2.0
Todd	24,991	22,114	13.0
Traverse	5,542	6,254	-11.4
Wabasha	19,335	17,224	12.3
Wadena	14,192	12,412	14.3
Waseca	18,448	16,663	10.7
Washington	113,571	83,003	36.8
Watonwan	12,361	13,298	-7.0
Wilkin	8,382	9,389	-10.7
Winona	46,256	44,409	4.2
Wright	58,962	38,933	51.4
Yellow Medicine	13,653	14,523	-6.0
State Total	4,077,148	3,806,103	7.1

Table 5
1980 CENSUS DATA* BY REGION, COUNTY AND CITIES OVER 90,000 POPULATION
MINNESOTA, 1980

	Total	Under 5	5-9 Yrs.	10-14 Yrs.	15-19 Yrs.	20-24 Yrs.	25-34 Yrs.	35-44 Yrs.	45-54 Yrs.	55-64 Yrs.	65 & Over
State Total	4,075,970	307,249	296,295	333,378	399,818	393,566	676,539	449,216	380,250	360,095	479,564
Male	1,997,826	157,312	151,556	170,607	202,254	194,835	339,172	224,105	188,036	172,877	197,072
Female	2,078,144	149,937	144,739	162,771	197,564	198,731	337,367	225,111	192,214	187,218	282,492
Northwestern Region	160,365	12,810	12,283	13,413	16,343	13,628	21,714	15,960	14,600	15,470	24,144
Male	80,373	6,543	6,284	6,979	8,394	6,968	11,170	7,975	7,256	7,651	11,153
Female	79,992	6,267	5,999	6,434	7,949	6,660	10,544	7,985	7,344	7,819	12,991
Northeastern Region	343,344	25,700	24,857	26,745	33,097	30,601	53,150	35,191	33,135	34,986	45,882
Male	169,981	13,270	12,763	13,765	16,866	15,388	27,403	17,641	16,380	16,827	19,678
Female	173,363	12,430	12,094	12,980	16,231	15,213	25,747	17,550	16,755	18,159	26,204
West Central Region	202,585	15,021	14,004	15,933	21,474	19,645	27,077	19,542	19,201	19,904	30,784
Male	100,308	7,708	7,219	8,114	10,907	9,768	13,952	9,723	9,494	9,673	13,750
Female	102,277	7,313	6,785	7,819	10,567	9,877	13,125	9,819	9,707	10,231	17,034
Central Region	452,982	39,064	36,846	41,343	48,532	40,317	66,111	47,587	38,819	38,434	55,929
Male	226,176	19,998	18,783	21,243	24,722	20,332	33,437	23,985	19,637	18,683	25,356
Female	226,806	19,066	18,063	20,100	23,810	19,985	32,674	23,602	19,182	19,751	30,573
Southwestern Region	304,276	23,919	22,302	24,401	28,749	24,102	41,006	29,267	29,104	31,898	49,528
Male	150,738	12,287	11,447	12,576	14,746	12,530	21,232	14,633	14,239	15,422	21,626
Female	153,538	11,632	10,855	11,825	14,003	11,572	19,774	14,634	14,865	16,476	27,902
South Central Region	221,980	17,290	15,330	17,007	23,021	23,002	32,152	21,330	20,435	20,775	31,638
Male	109,212	8,854	7,890	8,755	11,495	11,482	16,772	10,670	10,056	9,966	13,272
Female	112,768	8,436	7,440	8,252	11,526	11,520	15,380	10,660	10,379	10,809	18,366
Southeastern Region	404,565	30,926	29,353	32,910	41,862	37,704	60,955	43,476	37,468	36,459	53,452
Male	197,189	15,849	14,880	16,937	20,890	18,249	30,709	21,639	18,470	17,578	21,988
Female	207,376	15,077	14,473	15,973	20,972	19,455	30,246	21,837	18,998	18,881	31,464
Metropolitan Region	1,985,873	142,519	141,320	161,626	186,740	204,567	374,374	236,863	187,488	162,169	188,207
Male	963,849	72,803	72,290	82,238	94,234	100,118	184,497	117,839	92,504	77,077	70,249
Female	1,022,024	69,716	69,030	79,388	92,506	104,449	189,877	119,024	94,984	85,092	117,958

Table 5
1980 CENSUS DATA* BY REGION, COUNTY AND CITIES OVER 90,000 POPULATION
MINNESOTA, 1980

	Total	Under 5	5-9 Yrs.	10-14 Yrs.	15-19 Yrs.	20-24 Yrs.	25-34 Yrs.	35-44 Yrs.	45-54 Yrs.	55-64 Yrs.	65 & Over
State Total	4,075,970	307,249	296,295	333,378	399,818	393,566	676,539	449,216	380,250	360,095	479,564
Male	1,997,826	157,312	151,556	170,607	202,254	194,835	339,172	224,105	188,036	172,877	197,072
Female	2,078,144	149,937	144,739	162,771	197,564	198,731	337,367	225,111	192,214	187,218	282,492
Aitkin	13,404	929	945	1,022	1,196	800	1,639	1,350	1,248	1,670	2,605
Male	6,711	504	492	504	640	425	817	671	600	802	1,256
Female	6,693	425	453	518	556	375	822	679	648	868	1,349
Anoka	195,998	17,389	18,699	20,377	20,746	17,284	37,202	27,626	17,571	10,907	8,197
Male	98,089	8,902	9,567	10,452	10,530	8,551	18,066	13,939	9,156	5,501	3,425
Female	97,909	8,487	9,132	9,925	10,216	8,733	19,136	13,687	8,415	5,406	4,772
Becker	29,336	2,370	2,475	2,582	2,884	2,181	4,105	3,013	2,670	2,776	4,280
Male	14,751	1,243	1,317	1,334	1,531	1,100	2,064	1,518	1,348	1,302	1,994
Female	14,585	1,127	1,158	1,248	1,353	1,081	2,041	1,495	1,322	1,474	2,286
Beltrami	30,982	2,479	2,263	2,458	3,836	3,997	4,604	2,972	2,581	2,403	3,389
Male	15,451	1,237	1,145	1,292	1,920	2,017	2,347	1,509	1,289	1,139	1,556
Female	15,531	1,242	1,118	1,166	1,916	1,980	2,257	1,463	1,292	1,264	1,833
Benton	25,187	2,458	2,114	2,133	2,456	2,633	4,374	2,416	1,946	1,887	2,770
Male	12,457	1,267	1,051	1,120	1,226	1,268	2,233	1,213	990	929	1,160
Female	12,730	1,191	1,063	1,013	1,230	1,365	2,141	1,203	956	958	1,610
Big Stone	7,716	530	513	617	689	492	915	703	777	898	1,582
Male	3,779	268	253	297	373	259	473	351	392	440	673
Female	3,937	262	260	320	316	233	442	352	385	458	909
Blue Earth	52,314	3,871	3,070	3,510	6,211	8,169	8,303	4,550	4,297	4,308	6,025
Male	25,470	2,000	1,538	1,814	2,985	3,958	4,360	2,291	2,118	2,008	2,398
Female	26,844	1,871	1,532	1,696	3,226	4,211	3,943	2,259	2,179	2,300	3,627
Brown	28,645	2,127	2,036	2,314	2,997	2,650	3,832	2,687	2,722	2,807	4,473
Male	13,936	1,106	1,064	1,208	1,453	1,261	1,928	1,344	1,352	1,363	1,857
Female	14,709	1,021	972	1,106	1,544	1,389	1,904	1,343	1,370	1,444	2,616
Carlton	29,936	2,305	2,381	2,642	2,888	2,180	4,448	3,245	3,080	2,963	3,804
Male	14,994	1,181	1,261	1,377	1,474	1,093	2,278	1,636	1,559	1,443	1,692
Female	14,942	1,124	1,120	1,265	1,414	1,087	2,170	1,609	1,521	1,520	2,112
Carver	37,046	3,206	3,049	3,390	3,830	3,534	6,274	4,424	3,468	2,575	3,296
Male	18,653	1,665	1,586	1,737	1,945	1,776	3,219	2,222	1,808	1,278	1,417
Female	18,393	1,541	1,463	1,653	1,885	1,758	3,055	2,202	1,660	1,297	1,879
Cass	21,050	1,532	1,477	1,751	1,936	1,091	2,528	2,189	2,022	2,603	3,921
Male	10,443	763	720	878	1,011	564	1,269	1,070	1,004	1,230	1,934
Female	10,607	769	757	873	925	527	1,259	1,119	1,018	1,373	1,987
Chippewa	14,941	1,228	1,025	1,105	1,303	1,064	2,061	1,431	1,437	1,624	2,663
Male	7,318	607	518	585	669	538	1,071	715	681	777	1,157
Female	7,623	621	507	520	634	526	990	716	756	847	1,506

Table 5
1980 CENSUS DATA* BY REGION, COUNTY AND CITIES OVER 90,000 POPULATION
MINNESOTA, 1980 (CONT.)

	Total	Under 5	5-9 Yrs.	10-14 Yrs.	15-19 Yrs.	20-24 Yrs.	25-34 Yrs.	35-44 Yrs.	45-54 Yrs.	55-64 Yrs.	65 & Over
Chisago	25,717	2,259	2,260	2,462	2,466	1,841	3,873	3,148	2,184	2,126	3,098
Male	12,971	1,183	1,190	1,271	1,291	918	1,919	1,633	1,106	1,060	1,400
Female	12,746	1,076	1,070	1,191	1,175	923	1,954	1,515	1,078	1,066	1,698
Clay	49,327	3,503	3,120	3,543	6,537	7,824	7,096	4,579	4,325	3,853	4,947
Male	23,983	1,765	1,603	1,785	3,085	3,695	3,661	2,269	2,111	1,913	2,091
Female	25,344	1,738	1,512	1,758	3,452	4,129	3,435	2,310	2,214	1,940	2,856
Clearwater	8,761	722	706	764	871	586	1,017	939	774	861	1,521
Male	4,465	378	344	416	472	306	510	470	407	424	738
Female	4,296	344	362	348	399	280	507	469	367	437	783
Cook	4,092	260	261	335	335	274	683	484	407	444	609
Male	2,096	132	139	173	177	136	356	247	219	216	301
Female	1,996	128	122	162	158	138	327	237	188	228	308
Cottonwood	14,854	1,179	1,104	1,175	1,217	1,006	1,977	1,432	1,437	1,549	2,778
Male	7,240	623	528	594	628	531	1,030	725	712	706	1,163
Female	7,614	556	576	581	589	475	947	707	725	843	1,615
Crow Wing	41,722	3,188	3,022	3,448	3,985	2,862	5,791	4,463	3,909	4,543	6,511
Male	20,191	1,612	1,500	1,720	1,999	1,391	2,825	2,223	1,899	2,072	2,950
Female	21,531	1,576	1,522	1,728	1,986	1,471	2,966	2,240	2,010	2,471	3,561
Dakota	194,279	16,762	17,525	19,308	19,137	16,951	36,570	27,202	17,096	12,202	11,526
Male	96,010	8,495	8,850	9,835	9,683	8,440	17,583	13,644	8,805	6,019	4,656
Female	98,269	8,267	8,675	9,473	9,454	8,511	18,987	13,558	8,291	6,183	6,870
Dodge	14,773	1,395	1,218	1,294	1,396	1,089	2,280	1,643	1,288	1,290	1,880
Male	7,300	686	594	651	725	547	1,157	831	649	645	815
Female	7,473	709	624	643	671	542	1,123	812	639	645	1,065
Douglas	27,839	2,178	1,938	2,203	2,874	2,365	3,723	2,807	2,490	2,832	4,429
Male	13,696	1,094	989	1,095	1,434	1,182	1,903	1,421	1,211	1,397	1,970
Female	14,143	1,084	949	1,108	1,440	1,183	1,820	1,386	1,279	1,435	2,459
Faribault	19,714	1,480	1,292	1,498	1,749	1,442	2,518	1,899	2,002	2,241	3,593
Male	9,591	761	687	769	900	751	1,302	943	973	1,040	1,465
Female	10,123	719	605	729	849	691	1,216	956	1,029	1,201	2,128
Fillmore	21,930	1,643	1,641	1,760	1,969	1,408	2,792	2,164	2,160	2,406	3,987
Male	10,956	887	871	917	1,023	747	1,454	1,076	1,063	1,163	1,755
Female	10,974	756	770	843	946	661	1,338	1,088	1,097	1,243	2,232
Freeborn	36,329	2,686	2,542	2,972	3,314	2,775	5,073	3,886	3,658	3,952	5,471
Male	17,843	1,339	1,309	1,526	1,708	1,450	2,605	1,930	1,775	1,940	2,261
Female	18,486	1,347	1,233	1,446	1,606	1,325	2,468	1,956	1,883	2,012	3,210
Goodhue	38,749	2,936	2,859	3,209	3,837	2,802	5,628	4,226	3,600	3,548	6,104
Male	19,145	1,516	1,414	1,663	2,069	1,461	2,872	2,116	1,762	1,727	2,545
Female	19,604	1,420	1,445	1,546	1,768	1,341	2,756	2,110	1,838	1,821	3,559

Table 5
1980 CENSUS DATA* BY REGION, COUNTY AND CITIES OVER 90,000 POPULATION
MINNESOTA, 1980 (CONT.)

	Total	Under 5	5-9 Yrs.	10-14 Yrs.	15-19 Yrs.	20-24 Yrs.	25-34 Yrs.	35-44 Yrs.	45-54 Yrs.	55-64 Yrs.	65 & Over
Grant	7,171	506	480	528	615	425	859	689	705	829	1,535
Male	3,533	272	245	253	311	222	446	336	345	409	694
Female	3,638	234	235	275	304	203	413	353	360	420	841
Hennepin	941,411	59,771	58,045	67,685	82,803	102,328	183,957	107,761	91,911	85,088	102,062
Male	452,427	30,348	29,696	34,409	41,705	49,951	90,864	53,255	44,600	40,227	37,372
Female	488,984	29,423	28,349	33,276	41,098	52,377	93,093	54,506	47,311	44,861	64,690
Houston	18,382	1,443	1,377	1,646	1,734	1,392	2,707	1,797	1,815	1,754	2,717
Male	9,160	771	692	796	908	741	1,407	880	910	847	1,208
Female	9,222	672	685	850	826	651	1,300	917	905	907	1,509
Hubbard	14,098	1,083	1,042	1,192	1,327	870	1,847	1,550	1,397	1,484	2,306
Male	6,958	506	514	625	702	417	924	752	674	739	1,105
Female	7,140	577	528	567	625	453	923	798	723	745	1,201
Isanti	23,600	2,008	2,154	2,383	2,332	1,724	3,847	2,978	1,997	1,629	2,548
Male	11,824	1,028	1,104	1,223	1,248	856	1,900	1,515	1,035	776	1,139
Female	11,776	980	1,050	1,160	1,084	868	1,947	1,463	962	853	1,409
Itasca	43,069	3,658	3,464	3,689	4,033	3,223	6,597	4,605	4,085	4,389	5,326
Male	21,641	1,931	1,786	1,896	2,057	1,582	3,403	2,307	2,040	2,133	2,506
Female	21,428	1,727	1,678	1,793	1,976	1,641	3,194	2,298	2,045	2,256	2,820
Jackson	13,690	1,009	1,004	1,034	1,267	1,184	1,810	1,255	1,417	1,489	2,221
Male	6,839	543	511	527	681	635	942	635	672	737	956
Female	6,851	466	493	507	586	549	868	620	745	752	1,265
Kanabec	12,161	1,005	1,004	1,113	1,183	854	1,595	1,363	1,149	1,187	1,708
Male	6,027	519	501	563	601	429	792	674	563	593	792
Female	6,134	486	503	550	582	425	803	689	586	594	916
Kandiyohi	36,763	2,928	2,691	2,743	3,747	3,533	5,594	3,637	3,311	3,498	5,081
Male	18,141	1,492	1,426	1,399	1,819	1,745	2,838	1,803	1,652	1,668	2,299
Female	18,622	1,436	1,265	1,344	1,928	1,788	2,756	1,834	1,659	1,830	2,782
Kittson	6,672	498	447	538	510	450	909	647	675	734	1,264
Male	3,340	259	229	284	255	229	487	338	318	376	565
Female	3,332	239	218	254	255	221	422	309	357	358	699
Koochiching	17,571	1,408	1,462	1,500	1,740	1,312	2,644	1,916	1,789	1,754	2,046
Male	8,761	718	735	771	908	632	1,355	948	869	870	955
Female	8,810	690	727	729	832	680	1,289	968	920	884	1,091
Lac Qui Parle	10,592	769	729	791	879	754	1,316	973	1,076	1,261	2,044
Male	5,318	393	365	390	450	413	716	492	527	619	953
Female	5,274	376	364	401	429	341	600	481	549	642	1,091
Lake	13,043	1,017	953	1,008	1,232	1,032	1,967	1,539	1,552	1,277	1,466
Male	6,740	548	501	478	642	551	1,076	793	816	674	661
Female	6,303	469	452	530	590	481	891	746	736	603	805

Table 5
1980 CENSUS DATA* BY REGION, COUNTY AND CITIES OVER 90,000 POPULATION
MINNESOTA, 1980 (CONT.)

	Total	Under 5	5-9 Yrs.	10-14 Yrs.	15-19 Yrs.	20-24 Yrs.	25-34 Yrs.	35-44 Yrs.	45-54 Yrs.	55-64 Yrs.	65 & Over
Lake of Woods	3,764	257	273	315	349	239	471	433	362	445	620
Male	1,909	137	131	173	205	116	246	220	155	234	292
Female	1,855	120	142	142	144	123	225	213	207	211	328
LeSueur	23,434	1,945	1,799	2,226	2,266	1,745	3,253	2,545	2,081	2,184	3,390
Male	11,720	961	930	1,143	1,210	930	1,675	1,277	1,035	1,049	1,510
Female	11,714	984	869	1,083	1,056	815	1,578	1,268	1,046	1,135	1,880
Lincoln	8,207	630	597	673	771	477	917	817	798	952	1,575
Male	4,083	298	309	351	401	264	480	396	416	467	701
Female	4,124	332	288	322	370	213	437	421	382	485	874
Lyon	25,207	2,023	1,812	2,014	2,707	2,843	3,539	2,433	2,126	2,328	3,382
Male	12,555	1,072	949	1,094	1,349	1,434	1,874	1,216	1,021	1,108	1,438
Female	12,652	951	863	920	1,358	1,409	1,665	1,217	1,105	1,220	1,944
McLeod	29,657	2,417	2,386	2,519	2,660	2,298	4,507	3,225	2,729	2,761	4,155
Male	14,743	1,257	1,277	1,276	1,368	1,189	2,254	1,643	1,358	1,326	1,795
Female	14,914	1,160	1,109	1,243	1,292	1,109	2,253	1,582	1,371	1,435	2,360
Mahnomen	5,535	468	489	581	575	342	615	520	502	574	869
Male	2,824	236	253	281	309	180	316	260	268	280	441
Female	2,711	232	236	300	266	162	299	260	234	294	428
Marshall	13,027	1,124	1,069	1,122	1,228	847	1,747	1,315	1,226	1,396	1,953
Male	6,691	613	570	574	642	451	907	668	630	726	910
Female	6,336	511	499	548	586	396	840	647	596	670	1,043
Martin	24,687	1,837	1,785	1,830	2,115	1,969	3,530	2,427	2,414	2,637	4,143
Male	12,098	961	903	971	1,069	1,004	1,824	1,212	1,178	1,249	1,727
Female	12,589	876	882	859	1,046	965	1,706	1,215	1,236	1,388	2,416
Meeker	20,594	1,711	1,663	1,663	1,913	1,416	2,840	1,995	1,964	2,117	3,312
Male	10,254	878	836	854	994	735	1,477	1,002	977	1,027	1,474
Female	10,340	833	827	809	919	681	1,363	993	987	1,090	1,838
Mille Lacs	18,430	1,567	1,339	1,648	1,835	1,236	2,438	1,924	1,625	1,774	3,044
Male	9,228	844	698	906	969	604	1,226	946	800	861	1,374
Female	9,202	723	641	742	866	632	1,212	978	825	913	1,670
Morrison	29,311	2,651	2,429	2,976	3,035	2,096	3,768	2,770	2,739	2,745	4,102
Male	14,555	1,353	1,241	1,527	1,533	1,048	1,930	1,353	1,371	1,325	1,874
Female	14,756	1,298	1,188	1,449	1,502	1,048	1,838	1,417	1,368	1,420	2,228
Mower	40,390	2,812	2,642	3,213	4,016	2,854	5,206	3,746	4,599	4,935	6,367
Male	19,667	1,448	1,357	1,632	2,030	1,459	2,699	1,811	2,206	2,362	2,663
Female	20,723	1,364	1,285	1,581	1,986	1,395	2,507	1,935	2,393	2,573	3,704
Murray	11,507	924	837	1,019	1,115	741	1,509	1,020	1,213	1,318	1,811
Male	5,770	467	433	525	557	400	815	510	575	664	824
Female	5,737	457	404	494	558	341	694	510	638	654	987

Table 5
1980 CENSUS DATA* BY REGION, COUNTY AND CITIES OVER 90,000 POPULATION
MINNESOTA, 1980 (CONT.)

	Total	Under 5	5-9 Yrs.	10-14 Yrs.	15-19 Yrs.	20-24 Yrs.	25-34 Yrs.	35-44 Yrs.	45-54 Yrs.	55-64 Yrs.	65 & Over
Nicollet	26,929	2,139	1,913	2,079	3,347	3,297	4,334	2,730	2,329	1,942	2,819
Male	13,358	1,083	986	1,039	1,632	1,621	2,331	1,367	1,170	958	1,171
Female	13,571	1,056	927	1,040	1,715	1,676	2,003	1,363	1,159	984	1,648
Nobles	21,840	1,615	1,576	1,818	2,134	1,804	2,876	2,119	2,254	2,235	3,409
Male	10,714	816	802	936	1,139	932	1,445	1,067	1,087	1,069	1,421
Female	11,126	799	774	882	995	872	1,431	1,052	1,167	1,166	1,988
Norman	9,379	724	695	742	765	553	1,104	882	920	1,061	1,933
Male	4,715	348	358	390	409	286	578	431	460	549	906
Female	4,664	376	337	352	356	267	526	451	460	512	1,027
Olmsted	92,006	7,185	6,951	7,619	9,036	9,508	16,474	11,679	8,293	6,687	8,574
Male	43,684	3,699	3,498	3,918	4,385	4,050	7,927	5,769	4,151	3,174	3,113
Female	48,322	3,486	3,453	3,701	4,651	5,458	8,547	5,910	4,142	3,513	5,461
Ottertail	51,937	3,675	3,472	4,164	4,787	3,665	6,721	5,148	5,239	5,739	9,327
Male	25,926	1,919	1,734	2,186	2,551	1,852	3,466	2,571	2,606	2,786	4,255
Female	26,011	1,756	1,738	1,978	2,236	1,813	3,255	2,577	2,633	2,953	5,072
Pennington	15,258	1,258	1,203	1,185	1,545	1,430	2,292	1,547	1,305	1,290	2,203
Male	7,523	663	615	596	792	697	1,177	769	627	648	939
Female	7,735	595	588	589	753	733	1,115	778	678	642	1,264
Pine	19,871	1,651	1,529	1,695	1,903	1,424	2,679	2,125	1,858	2,003	3,004
Male	10,181	846	793	871	1,024	744	1,488	1,062	965	970	1,418
Female	9,690	805	736	824	879	680	1,191	1,063	893	1,033	1,586
Pipestone	11,690	896	840	894	1,169	868	1,412	1,039	1,135	1,279	2,158
Male	5,648	440	417	443	632	452	718	508	545	607	886
Female	6,042	456	423	451	537	416	694	531	590	672	1,272
Polk	34,844	2,656	2,630	2,854	3,633	2,945	4,732	3,312	3,260	3,462	5,360
Male	17,242	1,387	1,359	1,490	1,816	1,549	2,420	1,611	1,623	1,643	2,344
Female	17,602	1,269	1,271	1,364	1,817	1,396	2,312	1,701	1,637	1,819	3,016
Pope	11,657	906	805	912	989	755	1,449	1,086	1,161	1,377	2,217
Male	5,832	466	406	461	519	409	781	526	575	688	1,001
Female	5,825	440	399	451	470	346	668	560	586	689	1,216
Ramsey	459,784	32,044	29,626	34,284	43,728	52,339	82,131	47,439	43,169	41,698	53,326
Male	219,086	16,524	15,126	17,344	21,757	25,209	40,745	23,253	20,690	19,180	19,258
Female	240,698	15,520	14,500	16,940	21,971	27,130	41,386	24,186	22,479	22,518	34,068
Red Lake	5,471	467	434	546	571	409	665	525	490	520	844
Male	2,782	232	212	275	287	236	355	274	251	252	408
Female	2,689	235	222	271	284	173	310	251	239	268	436
Redwood	19,341	1,498	1,421	1,673	1,765	1,334	2,480	1,908	1,745	2,116	3,401
Male	9,587	760	711	887	911	705	1,259	976	871	1,044	1,463
Female	9,754	738	710	786	854	629	1,221	932	874	1,072	1,938

Table 5
1980 CENSUS DATA* BY REGION, COUNTY AND CITIES OVER 90,000 POPULATION
MINNESOTA, 1980 (CONT.)

	Total	Under 5	5-9 Yrs.	10-14 Yrs.	15-19 Yrs.	20-24 Yrs.	25-34 Yrs.	35-44 Yrs.	45-54 Yrs.	55-64 Yrs.	65 & Over
Renville	20,401	1,592	1,462	1,653	1,873	1,519	2,617	1,806	2,077	2,263	3,539
Male	10,197	809	758	870	967	822	1,379	885	1,030	1,103	1,574
Female	10,204	783	704	783	906	697	1,238	921	1,047	1,160	1,965
Rice	46,087	3,461	3,253	3,694	5,976	5,783	6,533	4,847	3,734	3,494	5,312
Male	22,723	1,722	1,611	1,991	3,043	2,962	3,253	2,464	1,863	1,633	2,181
Female	23,364	1,739	1,642	1,703	2,933	2,821	3,280	2,383	1,871	1,861	3,131
Rock	10,703	887	854	853	937	798	1,414	1,024	1,042	1,239	1,655
Male	5,236	458	419	420	485	408	732	512	484	617	701
Female	5,467	429	435	433	452	390	682	512	558	622	954
Roseau	12,574	1,074	1,032	1,116	1,133	960	1,711	1,318	1,108	1,240	1,882
Male	6,473	547	554	583	585	484	903	673	554	641	949
Female	6,101	527	478	533	548	476	808	645	554	599	933
St. Louis	222,229	16,123	15,391	16,549	21,673	21,780	35,172	22,052	20,974	22,489	30,026
Male	109,038	8,256	7,849	8,566	10,968	10,969	18,118	11,039	10,277	10,689	12,307
Female	113,191	7,867	7,542	7,983	10,705	10,811	17,054	11,013	10,697	11,800	17,719
Scott	43,784	3,831	3,949	4,696	4,678	3,548	7,518	5,834	3,727	2,767	3,236
Male	22,081	1,961	2,093	2,427	2,425	1,784	3,700	2,994	1,928	1,389	1,380
Female	21,703	1,870	1,856	2,269	2,253	1,764	3,818	2,840	1,799	1,378	1,856
Sherburne	29,908	2,805	2,901	2,879	3,039	2,836	5,326	3,616	2,240	1,826	2,440
Male	15,255	1,428	1,447	1,493	1,589	1,598	2,694	1,886	1,152	901	1,067
Female	14,653	1,377	1,454	1,386	1,450	1,238	2,632	1,730	1,088	925	1,373
Sibley	15,448	1,245	1,203	1,233	1,435	1,110	1,931	1,556	1,623	1,570	2,542
Male	7,712	636	632	594	708	608	1,027	766	806	764	1,171
Female	7,736	609	571	639	727	502	904	790	817	806	1,371
Stearns	108,161	8,827	7,967	9,556	14,588	14,538	15,484	9,750	9,002	7,900	10,549
Male	54,077	4,567	4,104	4,934	7,162	7,260	7,921	4,867	4,578	3,958	4,726
Female	54,084	4,260	3,863	4,622	7,426	7,278	7,563	4,883	4,424	3,942	5,823
Steele	30,328	2,541	2,309	2,441	2,997	2,812	4,768	3,210	2,716	2,710	3,824
Male	14,918	1,282	1,215	1,235	1,475	1,395	2,424	1,610	1,323	1,324	1,635
Female	15,410	1,259	1,094	1,206	1,522	1,417	2,344	1,600	1,393	1,386	2,189
Stevens	11,322	863	710	856	1,372	1,420	1,451	941	1,065	1,049	1,595
Male	5,594	435	372	432	709	741	763	471	515	489	667
Female	5,728	428	338	424	663	679	688	470	550	560	928
Swift	12,920	1,035	890	1,155	1,174	917	1,603	1,169	1,211	1,502	2,264
Male	6,433	552	464	588	591	498	852	568	577	732	1,011
Female	6,487	483	426	567	583	419	751	601	634	770	1,253
Todd	24,991	2,210	2,023	2,223	2,542	1,648	3,194	2,473	2,251	2,557	3,870
Male	12,609	1,141	1,041	1,137	1,323	888	1,636	1,231	1,150	1,255	1,807
Female	12,382	1,069	982	1,086	1,219	760	1,558	1,242	1,101	1,302	2,063

Table 5
1980 CENSUS DATA* BY REGION, COUNTY AND CITIES OVER 90,000 POPULATION
MINNESOTA, 1980 (CONT.)

	Total	Under 5	5-9 Yrs.	10-14 Yrs.	15-19 Yrs.	20-24 Yrs.	25-34 Yrs.	35-44 Yrs.	45-54 Yrs.	55-64 Yrs.	65 & Over
Traverse	5,542	368	389	413	536	338	584	500	640	635	1,139
Male	2,758	192	220	191	269	193	307	239	320	310	517
Female	2,784	176	169	222	267	145	277	261	320	325	622
Wabasha	19,335	1,594	1,475	1,673	1,838	1,397	2,864	1,962	1,707	1,853	2,972
Male	9,627	814	732	874	939	718	1,503	982	860	942	1,263
Female	9,708	780	743	799	899	679	1,361	980	847	911	1,709
Wadena	14,192	1,154	1,116	1,268	1,476	954	1,697	1,460	1,321	1,418	2,328
Male	6,977	563	550	658	778	496	853	718	653	688	1,020
Female	7,215	591	566	610	698	458	844	742	668	730	1,308
Waseca	18,448	1,678	1,387	1,427	1,854	1,683	2,815	1,727	1,639	1,746	2,492
Male	9,189	848	720	762	982	869	1,456	867	783	888	1,014
Female	9,259	830	667	665	872	814	1,359	860	856	858	1,478
Washington	113,571	9,516	10,427	11,886	11,818	8,583	20,722	16,577	10,546	6,932	6,564
Male	57,503	4,908	5,372	6,034	6,189	4,407	10,320	8,532	5,517	3,483	2,741
Female	56,068	4,608	5,055	5,852	5,629	4,176	10,402	8,045	5,029	3,449	3,823
Watonwan	12,361	968	845	890	1,047	937	1,636	1,209	1,328	1,340	2,161
Male	6,138	498	430	455	556	480	869	603	641	647	959
Female	6,223	470	415	435	491	457	767	606	687	693	1,202
Wilkin	8,454	652	615	732	880	672	1,089	779	906	814	1,315
Male	4,235	322	328	377	498	374	561	372	463	379	561
Female	4,219	330	287	355	382	298	528	407	443	435	754
Winona	46,256	3,230	3,086	3,389	5,749	5,884	6,630	4,316	3,898	3,830	6,244
Male	22,166	1,685	1,587	1,734	2,585	2,719	3,408	2,170	1,908	1,821	2,549
Female	24,090	1,545	1,499	1,655	3,164	3,165	3,222	2,146	1,990	2,009	3,695
Wright	58,681	5,749	5,511	5,808	5,756	4,580	9,517	6,912	4,576	4,236	6,036
Male	29,381	2,884	2,843	2,942	2,968	2,268	4,751	3,594	2,371	2,065	2,695
Female	29,300	2,865	2,668	2,866	2,788	2,312	4,766	3,318	2,205	2,171	3,341
Yellow Medicine	13,653	1,048	898	1,002	1,429	1,054	1,619	1,281	1,355	1,469	2,498
Male	6,883	554	471	540	732	570	877	629	662	711	1,137
Female	6,770	494	427	462	697	484	742	652	693	758	1,361
Minneapolis	370,951	22,433	18,563	19,307	28,131	50,192	81,692	32,208	27,862	33,533	57,030
Male	174,442	11,377	9,448	9,772	13,744	24,481	41,503	16,259	13,216	14,986	19,656
Female	196,509	11,056	9,115	9,535	14,387	25,711	40,189	15,949	14,646	18,547	37,374
St. Paul	270,230	18,787	16,165	17,586	23,693	32,464	49,168	23,309	22,542	25,929	40,587
Male	126,086	9,617	8,290	8,964	11,535	15,453	24,679	11,433	10,468	11,435	14,212
Female	144,144	9,170	7,875	8,622	12,158	17,011	24,489	11,876	12,074	14,494	26,375
Duluth	92,811	6,042	5,549	6,239	9,486	10,894	14,520	8,520	8,158	9,136	14,267
Male	43,880	3,048	2,802	3,270	4,665	5,223	7,320	4,215	3,889	4,134	5,314
Female	48,931	2,994	2,747	2,969	4,821	5,671	7,200	4,305	4,269	5,002	8,953

* Derived from 1980 Census Summary Tape File 1 housed at Minnesota Analysis and Planning Systems, Agricultural Extension Service, University of Minnesota

Trends of the 70's

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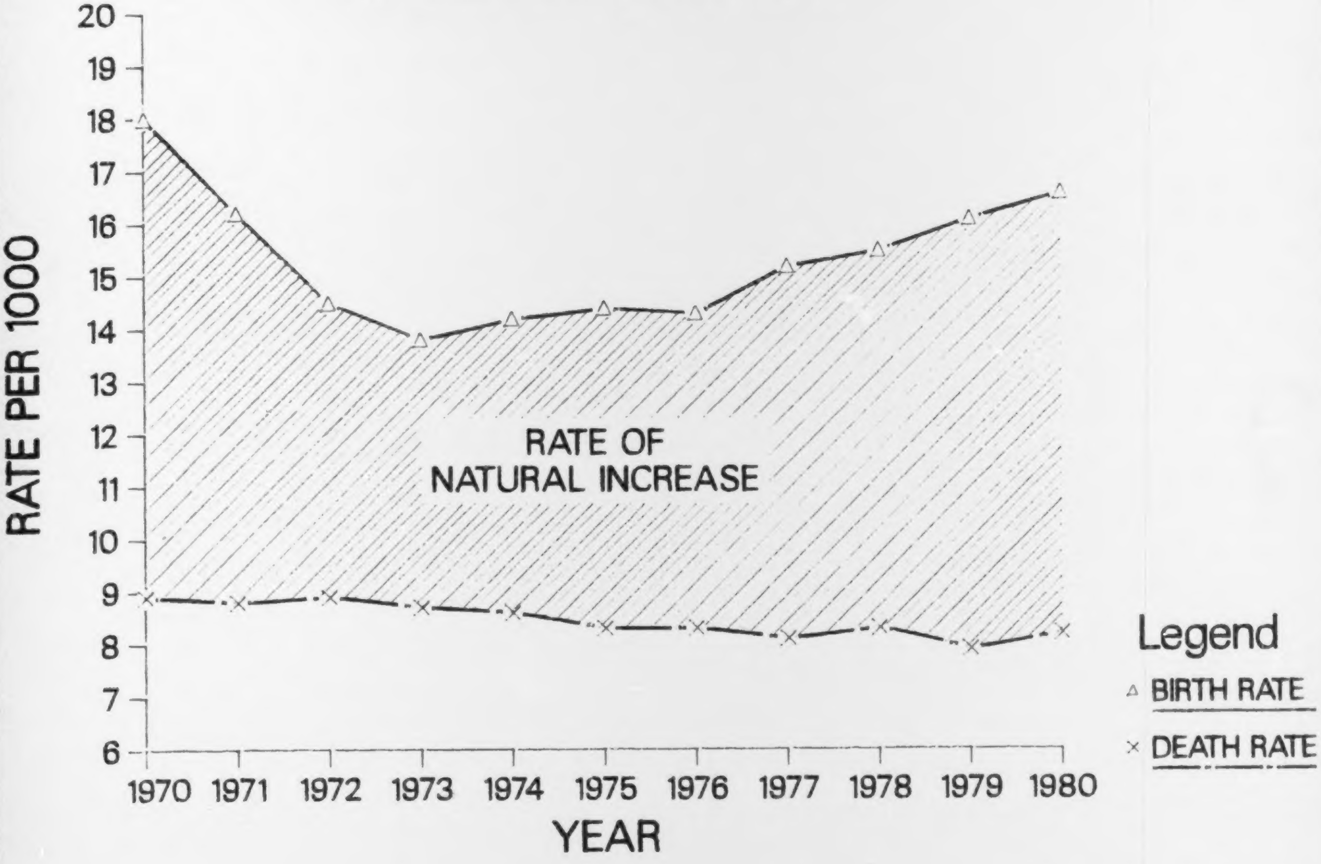
Natural Increase

The birth rate in Minnesota decreased 23 percent from 18.0 per 1,000 population in 1970 to 13.8 in 1973. This general trend of decreasing birth rates began in 1959 when the birth rate was 26.5. Beginning in 1974, however, the birth rate rose steadily to 16.6 in 1980--a 20 percent increase. During the period from 1970 to 1980 the state death rate decreased 11 percent--from 8.9 to 7.9 per 1,000--between 1970 and 1979, and then increased to 8.2 in 1980. The trends in these rates are illustrated in Figure 5.

The difference between the birth and death rate is known as the rate of natural increase. This rate of natural increase was highest in 1970 at 9.1 per 1,000, then decreased to 5.1 in 1973 due to decreasing birth rates, and slowly increased to 8.4 in 1980.

Figure 5

BIRTH AND DEATH RATE PER 1000 POPULATION
MINNESOTA, 1970-1980



Births by Geographic Area

In 1970, there were 68,449 resident births in Minnesota. This number decreased to a low of 53,783 in 1973 and increased every year since to 67,843 in 1980. The overall effect was a one percent increase in the number of births over the 11 year period.

This general pattern of decreasing births in the early 1970's and increasing births thereafter is evident in both the seven county metropolitan region and the non-metro region. In 1970, there were 36,890 metro births. By 1973, the number of metro births decreased to 26,625, then remained fairly constant for another three years and then increased to 32,237 in 1980. For the non-metro region, there were 31,559 births in 1970 followed by a decline to 27,158 in 1973 and a steady increase to 35,606 in 1980.

The overall effect was a thirteen percent decrease in the number of metro births between 1970 and 1980 and a thirteen percent increase in non-metro births. In 1970, there were over 5,000 more metro births than non-metro births. In 1980, however, there were 3,369 more non-metro births than metro births.

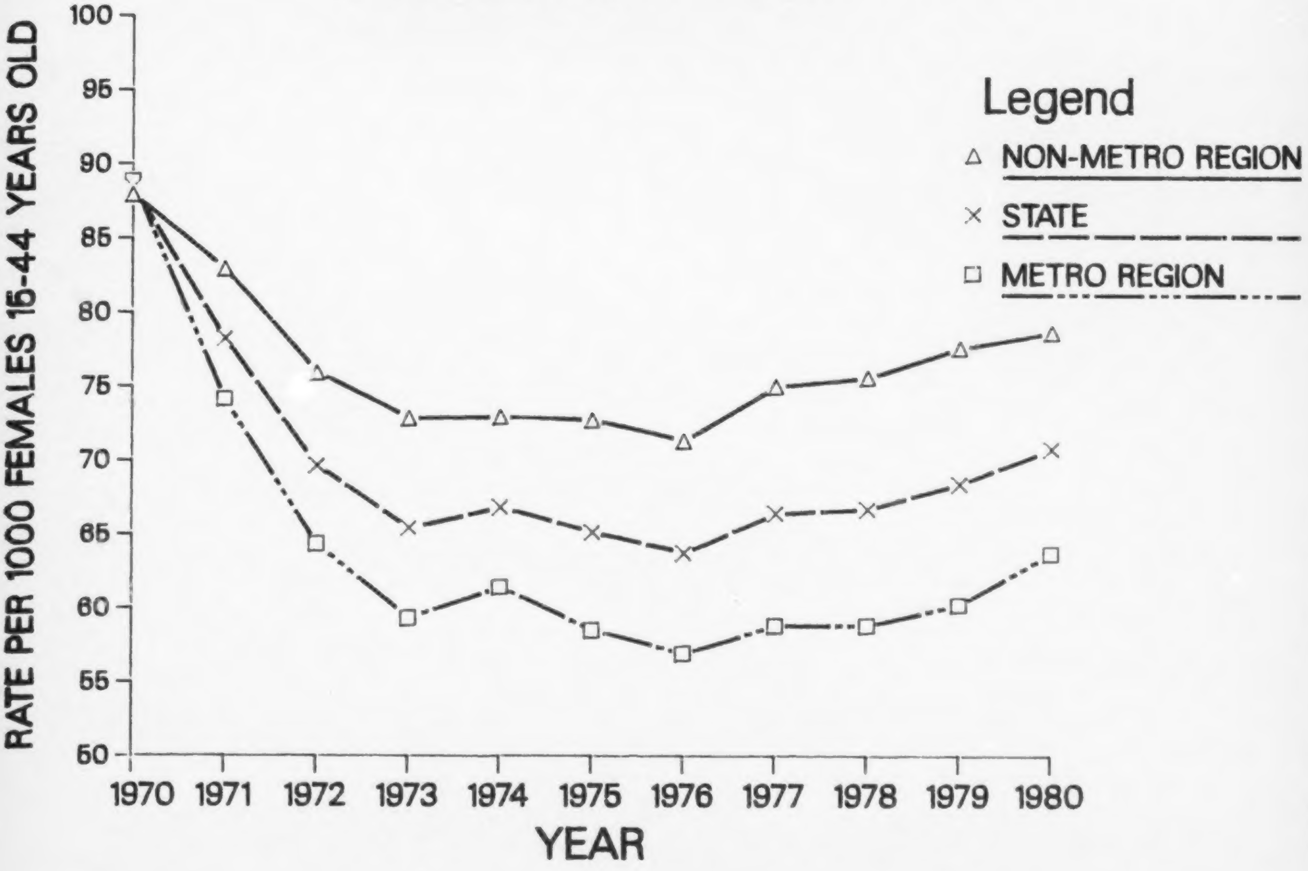
Fertility Rates

The fertility rate is the number of live births per 1,000 women in the population aged 15 through 44 years old. In Minnesota, the fertility rate was 88.4 in 1970. The fertility rate decreased during the early 1970's, and remained fairly constant in the mid-1970's (reaching a low of 63.7 in 1976) and then increased steadily to 70.8 in 1980. The overall effect was a 20 percent decrease in fertility rates for Minnesota.

Both the metro and the non-metro region follow the same pattern as the state. The metro fertility rate was 88.8 in 1970, dropped to a low of 56.9 in 1976 and increased to 63.7 in 1980--an overall decrease of 28 percent. The non-metro fertility rate in 1970 was 87.9. By 1976 it had dropped to 71.3 and by 1980 it had increased to 78.7--an overall decrease of 10 percent between 1970 and 1980. Whereas the 1970 fertility rates were almost equal for the metro and non-metro regions, by 1980, the non-metro rate was 24 percent higher.

Figure 7

FERTILITY RATE BY REGION AND STATE
MINNESOTA,1970-1980



Out of Wedlock Births

In 1970, Minnesota residents had 5,454 out-of-wedlock births--8.0 percent of all resident births that year. By 1980, there were 7,737 out-of-wedlock births accounting for 11.4 percent of all births. The number of out-of-wedlock births increased by 42 percent between 1970 and 1980.

The metro and non-metro regions both showed increasing out-of-wedlock births and increasing percentages of births that were out-of-wedlock. In 1970, there were 3,562 metro out-of-wedlock births, 9.6 percent of all metro births. In 1980, there were 4,434 metro out-of-wedlock births, or 13.7 percent of all metro births. The number of metro out-of-wedlock births increased 24 percent. Similarly, in 1970, there were 1,892 non-metro out-of-wedlock births (6.0 percent of all non-metro births). In 1980, there were 3,303 non-metro out-of-wedlock births (9.3 percent of all non-metro births). For the non-metro region, the number of out-of-wedlock births increased 75.0 percent.

Mean Age of Mother

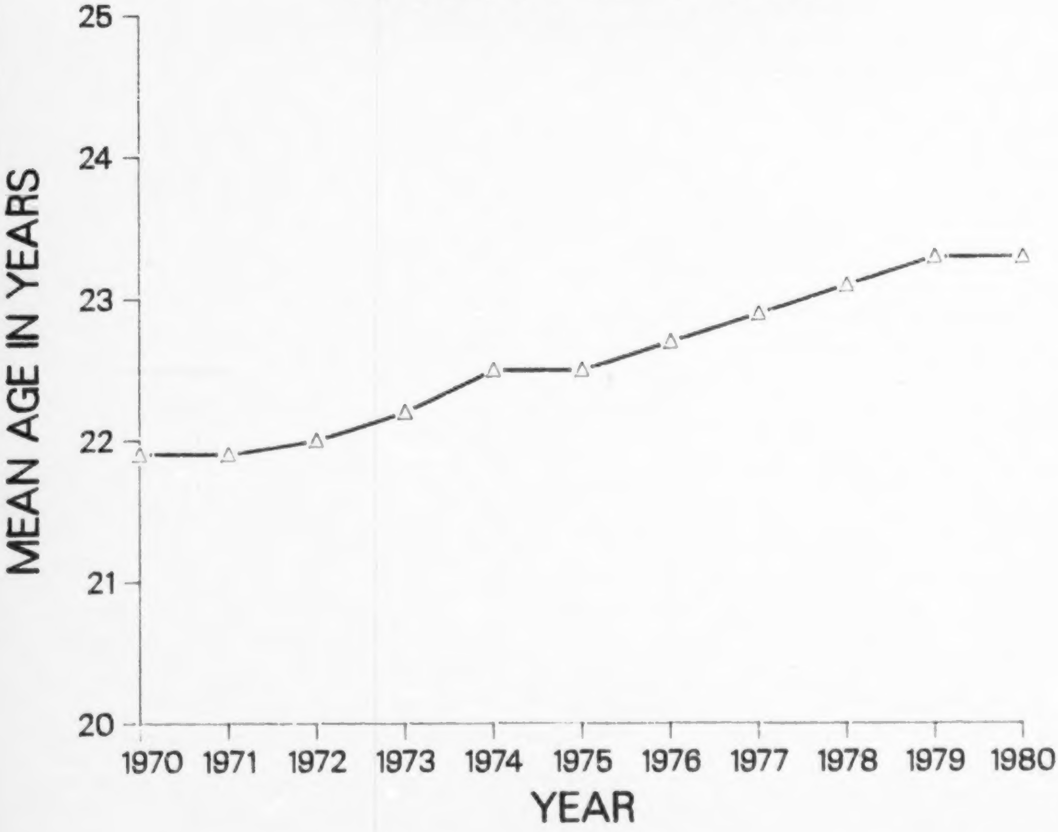
The mean age of mothers at birth remained fairly constant from 1970 to 1980. In 1970, the average age of mothers at birth was 25.4 years. In 1980, the average age was 25.6 years. For the metro region, the average age of mothers at birth was 26.0 years in 1980 and for the non-metro region, the average was 25.2 years.

For out-of-wedlock births, the mean age of mothers at birth was 20.8 in 1970 and 21.2 in 1980, remaining fairly constant throughout the 1970's. The 1980 mean age of mothers at birth for out-of-wedlock births was slightly higher for metro women than non-metro women, 21.6 and 20.8, respectively.

The mean age of mothers at first birth increased 1.4 years (See Figure 9 below), from 21.9 years in 1970 to 23.3 years in 1980. Similarly, the mean age of second births increased 1.3 years, from 24.6 years in 1970 to 25.9 years in 1980. For higher birth orders, increases in mean age of mothers were much smaller.

Figure 9

MEAN AGE OF MOTHER AT FIRST BIRTH
MINNESOTA, 1970-1980



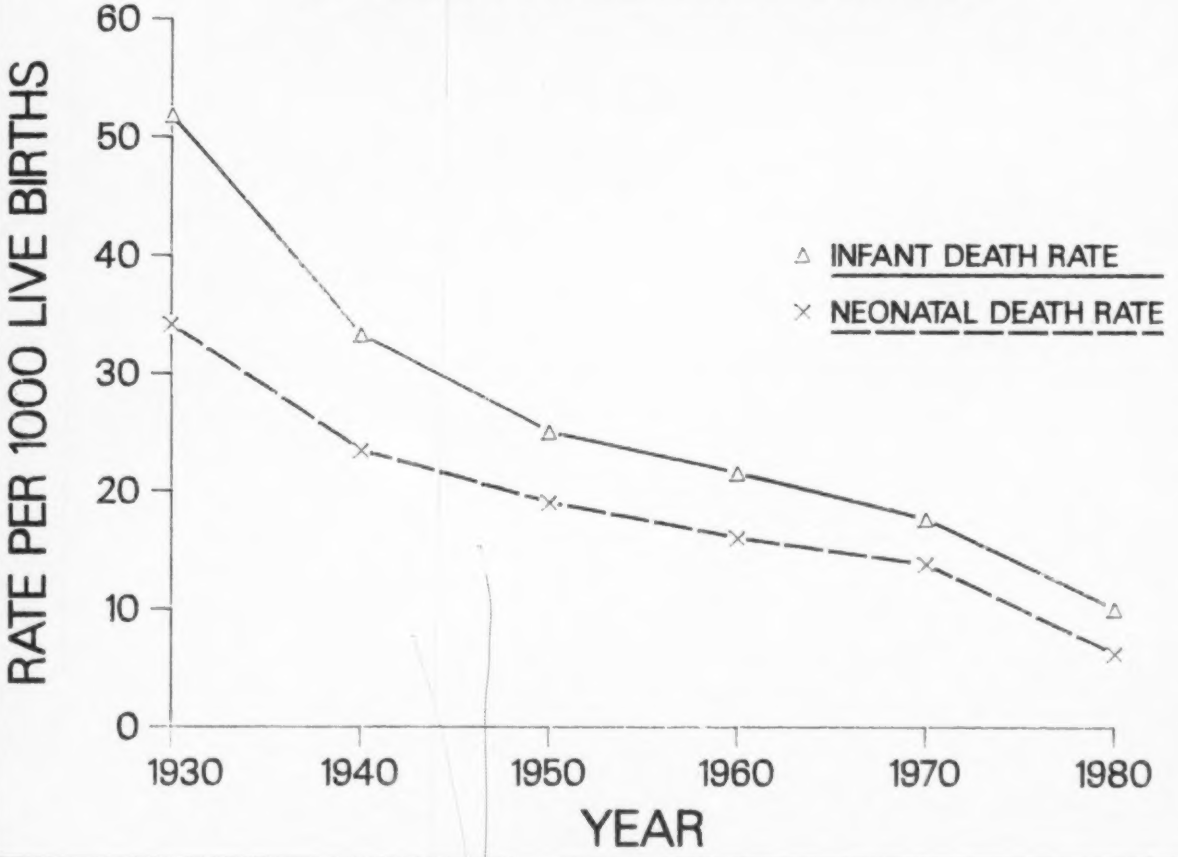
Infant Deaths

Decrease in Infant Mortality

Infant deaths have shown a remarkable decrease over the last half century. The 1930 infant death rate (number of infant deaths per 1,000 live births) was 51.8 as compared with 10.0 recorded in 1980. Neonatal deaths (deaths occurring in the first 28 days of life) indicated a similar decline, dropping from 34.1 per thousand live births in 1930 to 6.2 in 1980. Figure 10 illustrates the trend over time.

Figure 10

INFANT AND NEONATAL DEATH RATES MINNESOTA RESIDENTS, 1930-1980

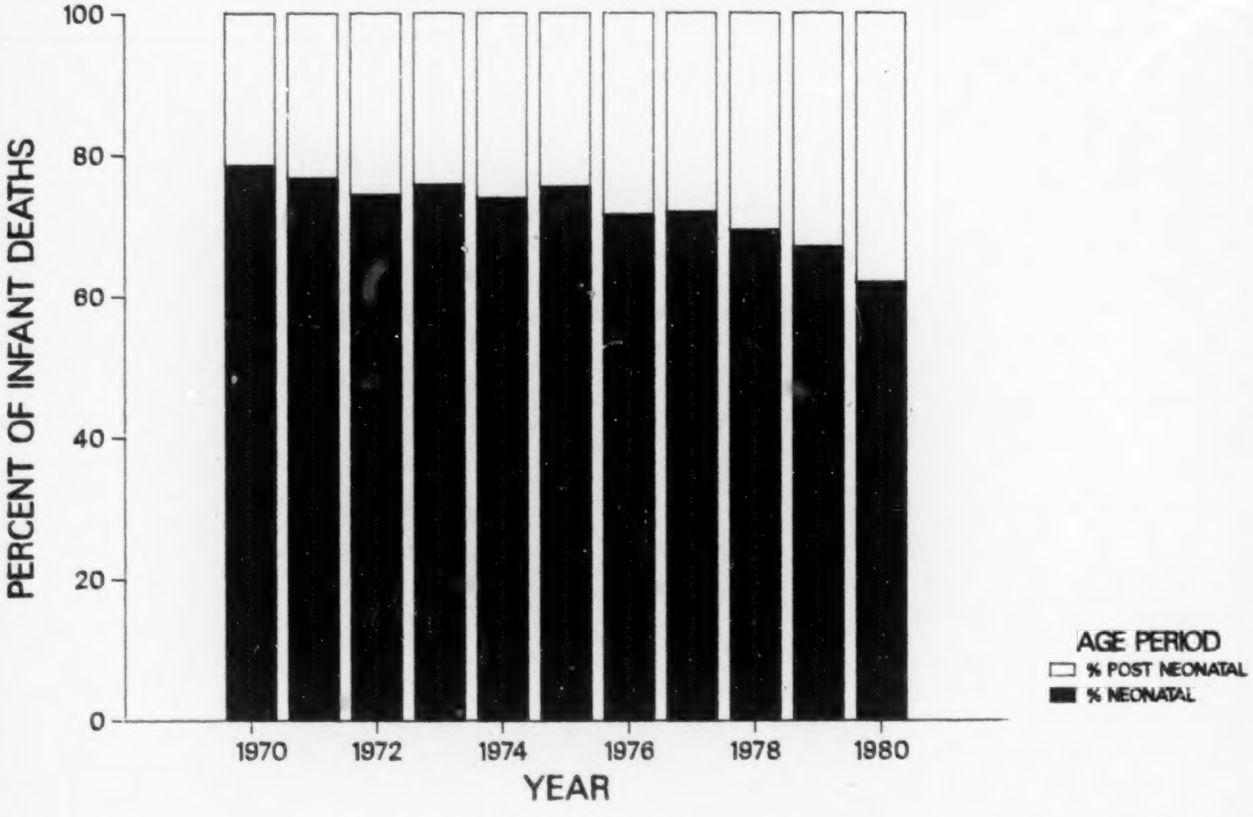


Neonatal versus Post-Neonatal Deaths

An overall decrease of 43.2% in infant death rates was experienced in the past decade whereas the neonatal death rate showed even greater improvement, dropping 55.1% since 1970. Figure 11 illustrates the fact that the proportion of infant deaths categorized as neonatal was reduced from 78.5% in 1970 to the 1980 low of 62%.

Figure 11

INFANT DEATHS BY AGE PERIOD MINNESOTA, 1970-1980

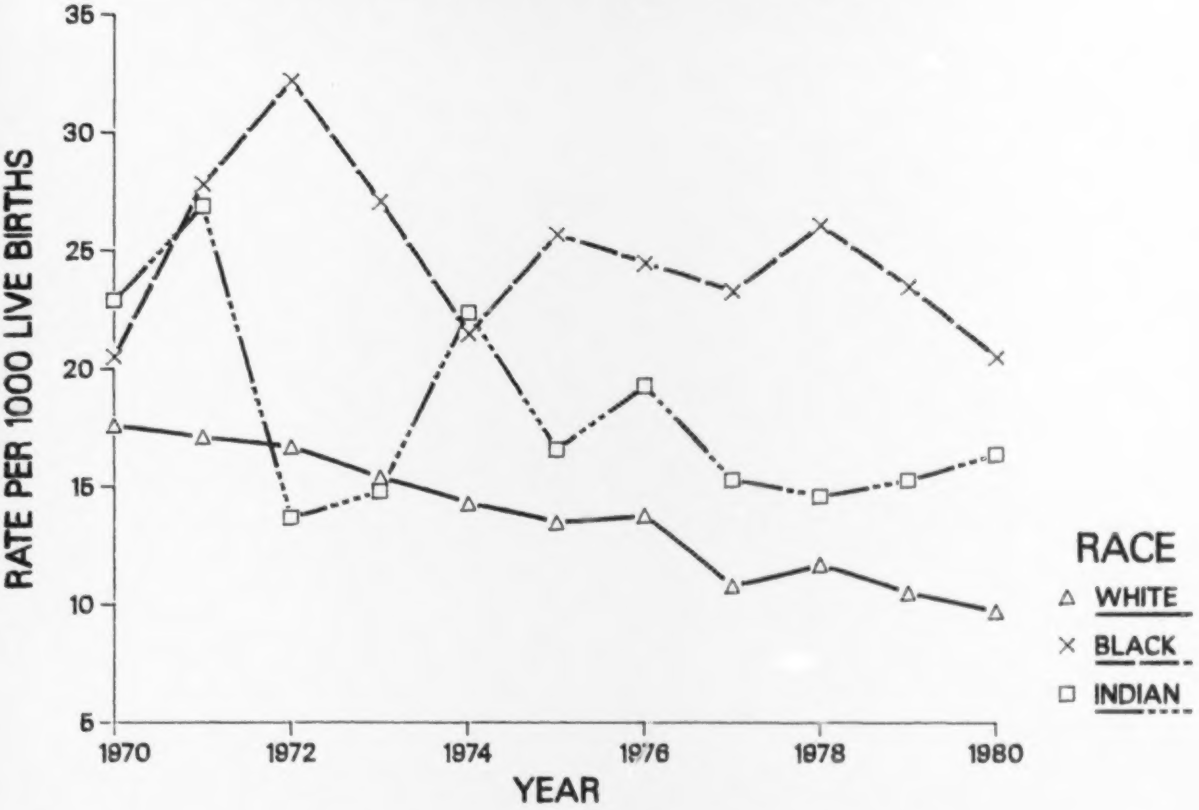


Infant Mortality by Race

Non-white infant mortality rates were higher in the 70's than White rates, with the exception of 1972 and 1973 when the Indian rates dipped below the White. The small numbers of Non-white occurrences result in large differences in annual rates as is apparent in Figure 12.

Figure 12

INFANT MORTALITY RATES BY RACE
MINNESOTA RESIDENTS, 1970-1980

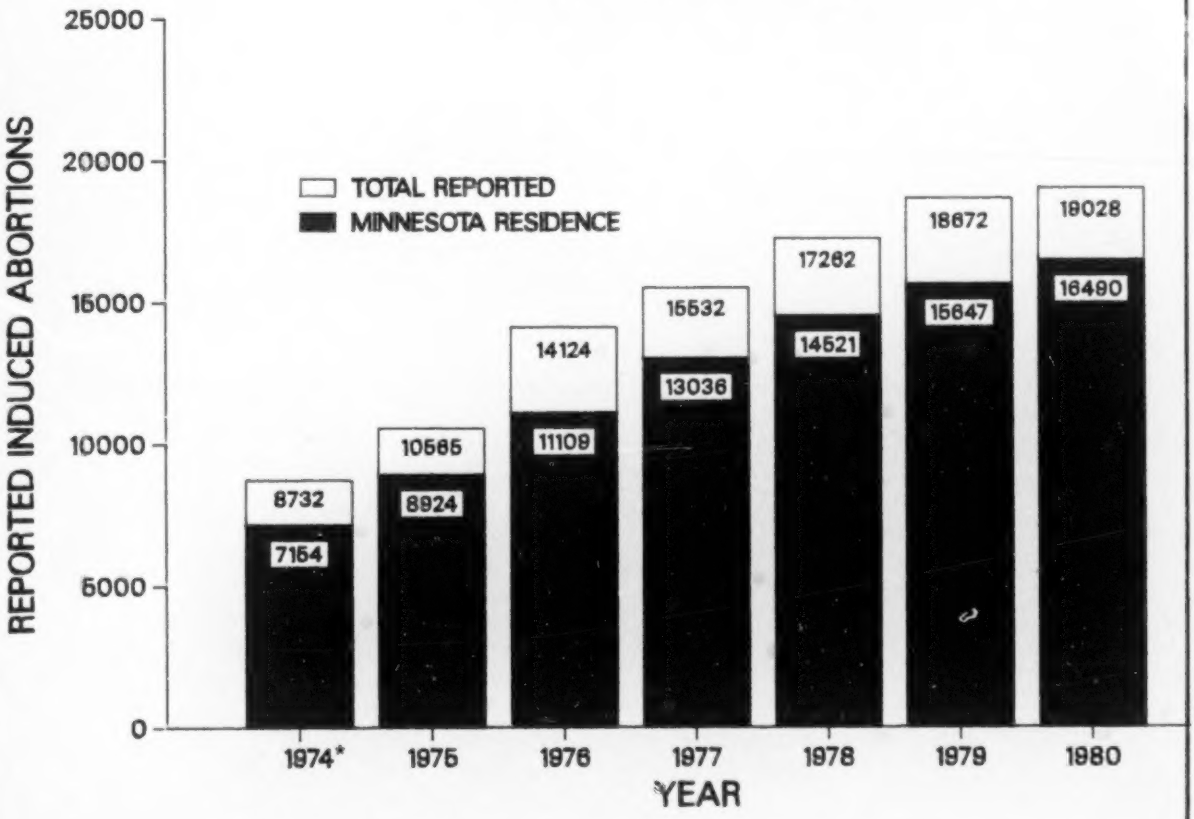


Reported Induced Abortions

Number of Induced Abortions by Year, 1974-1980

Since the initiation of the Minnesota Abortion Surveillance in 1974, reported induced abortions more than doubled in Minnesota. As Figure 13 indicates, this observation applies both to those abortions occurring in Minnesota and to those occurring in Minnesota to residents of the state.

Figure 13
REPORTED INDUCED ABORTIONS
MINNESOTA, 1974-1980



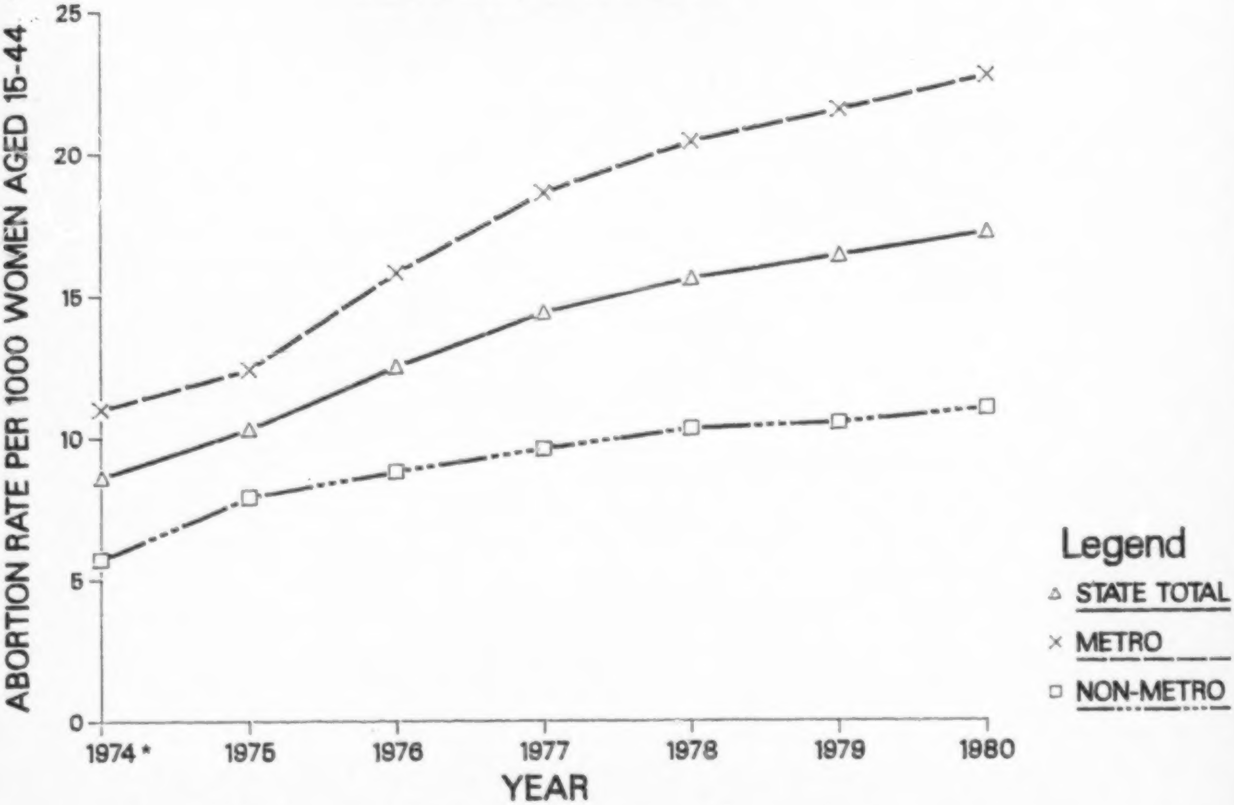
*Data supplied by the Center for Disease Control, Atlanta, GA

Induced Abortions by Geographic Area

Illustrated in Figure 14 is the fact that metro region abortion rates (number of abortions per 1,000 women aged 15-44) were consistently higher than both total state and non-metro area rates. However, the upward trend shown was similar statewide. State rates doubled over the seven year period from 8.6 per 1,000 women in 1974 to 17.2 in 1980. Metro rates increased by 106% from 11.0 in 1974 to 22.7 in 1980 and non-metro rates rose 93% from 5.7 to 11.0.

Figure 14

ABORTION RATE
METRO VS NONMETRO
MINNESOTA, 1974-1980



*Data supplied by the Center for Disease Control, Atlanta, GA

Induced Abortions by Recipient's Age

The largest percentage of total abortion recipients in 1975[1] was the 15-19 year age group (39.2%). By 1979 the 20-24 year age group became the largest receiving abortions (36.7). Table 6 illustrates the change in proportion of total abortions by age group between 1975 and 1980. Proportions of the total increased since 1976 in the middle age groups (20-34) and decreased in the young and older age groups (<20 and >34).

Table 6
NUMBER OF MINNESOTA RESIDENT ABORTIONS AND PERCENT OF TOTAL
BY AGE GROUP OF RECIPIENT, 1975-1980

	Year of Abortion											
	1975		1976		1977		1978		1979		1980	
Age Group	# of Abortions	% of Total	# of Abortions	% of Total	# of Abortions	% of Total	# of Abortions	% of Total	# of Abortions	% of Total	# of Abortions	% of Total
<15	83	(0.9)	128	(1.2)	110	(0.8)	74	(0.5)	90	(0.6)	104	(0.6)
15-19	3,497	(39.2)	4,443	(40.0)	4,857	(37.3)	5,166	(35.6)	5,511	(35.2)	5,603	(34.0)
20-24	2,968	(33.3)	3,643	(32.8)	4,528	(34.7)	5,066	(34.9)	5,683	(36.3)	6,054	(36.7)
25-29	1,297	(14.5)	1,727	(15.5)	2,001	(15.3)	2,306	(15.9)	2,574	(16.5)	2,823	(17.1)
30-34	598	(6.7)	676	(6.1)	909	(7.0)	952	(6.6)	1,107	(7.1)	1,219	(7.4)
35-39	310	(3.5)	349	(3.1)	424	(3.3)	465	(3.2)	501	(3.2)	491	(3.0)
40+	171	(1.9)	143	(1.3)	195	(1.5)	149	(1.0)	173	(1.1)	183	(1.1)
Unknown	-	-	-	-	12	(0.1)	343	(2.4)	8	(0.1)	13	(0.1)
Total	8,924	100.0	11,109	100.0	13,036	100.0	14,521	100.0	15,647	100.0	16,490	100.0

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[1] Age group data are not available for 1974 since the Surveillance was merely in a three month testing phase, therefore only state totals collected by the Center for Disease Control are available for comparison purposes.

Standardized Mortality Rates for Selected Causes of Death Minnesota, 1950-1980

Many factors affect statistical trends such as those pertaining to mortality. Included are such factors as demographic changes in the population (age, sex, race) and classificatory changes in the International Classification of Diseases. One way of accounting for demographic factors is to adjust the death rates to a standard population. Changes in classification are taken care of by converting to a standard which uses compatibility ratios.

When differentiating among the factors which contribute to death one has to make sure that the trends which appear are due to real changes in cause of death instead of changes in demography or classificatory (nosologic) practice. In the analysis which follows, demographic and classification adjustments were made for selected leading causes of death in Minnesota for the years of 1950, 1960, 1970 and 1980 (the adjustment process is typically labelled rate standardization).

Figure 15 shows trends associated with selected causes of death between 1950 and 1980. The rates have been standardized. The total standardized death rate has declined from 1124.9 per 100,000 in 1950 to 723.5 per 100,000 in 1980. This reduction of 400 per 100,000 (4 per 1,000) amounts to a decline of 37 percent during the last 30 years. The cancer death rate declined between 1950 and 1960 but has remained fairly constant between 1960 and 1980. The overall decline between 1950 and 1980 has equalled nine percent.

According to these standardized comparisons, heart disease has had the largest reduction during the 30 year study period. Cerebrovascular disease declined 56 percent and heart disease 36 percent. Both cirrhosis-chronic liver disease and homicide standardized mortality rates have increased during the study period; 26 and 58 percent respectively.

Death due to congenital anomalies affects Minnesota's young. These deaths have continued to decline through the 30 year interval, with the total decrease amounting to 57 percent.

Accidents are a leading cause of death among both the young and the old. Here also, the death rate has declined from approximately 70 to 41 events per 100,000 population, or a decline of 42 percent. Suicides have also decreased during the 30 year period from 11.3/100,000 to 9.7 per 100,000 accounting for a 14.2 percent decline.

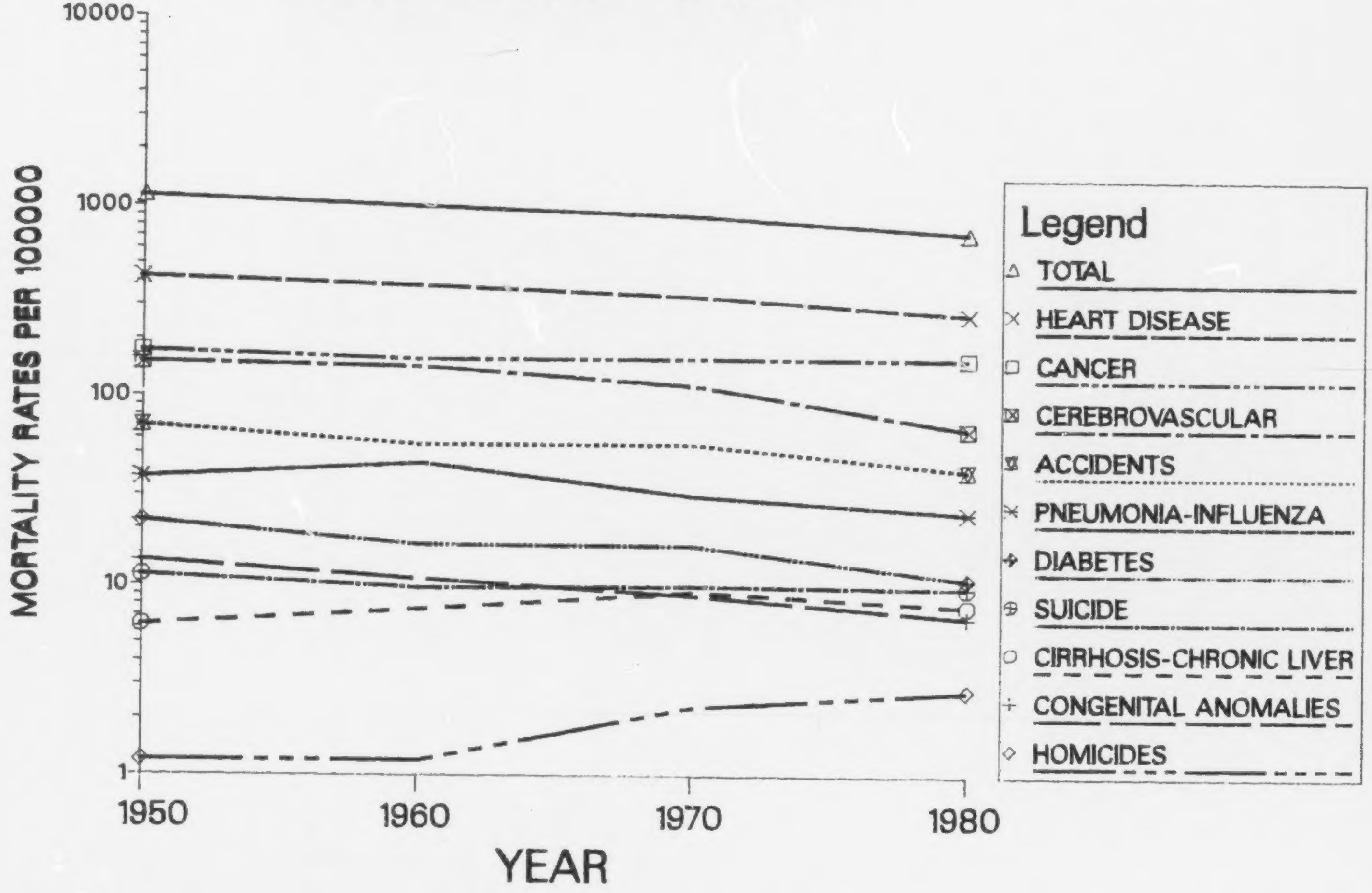
Table 7
STANDARDIZED MORTALITY RATES PER 100,000 POPULATION BY SELECTED CAUSES OF DEATH MINNESOTA, 1950-1980

Selected Causes of Death	Year 1950	1960	1970	1980	% Change 1950-1980
Total	1124.9	991.9	890.6	723.5	-35.7
Heart Disease	421.5	381.4	337.0	269.0	-36.2
Cancer	172.9	156.0	158.6	156.8	- 9.4
Cerebrovascular	150.6	142.9	114.0	66.7	-55.7
Accidents	69.8	55.3	55.8	40.5	-42.0
Pneumonia & Influenza	37.2	44.2	29.9	24.1	-35.3
Diabetes*	21.8	16.4	16.3	10.8	-51.5
Cirrhosis-Chronic Liver Disease	6.2	7.5	9.3	7.8	+25.8
Congenital Anomalies	13.5	10.8	8.9	6.8	-50.7
Suicides	11.3	9.7	10.0	9.7	-14.2
Homicides	1.2	1.2	2.3	2.8	+57.2

*Diabetes as a cause of death is notoriously under-reported on death certificates. Therefore, these statistics must be used with caution.

Figure 15

STANDARDIZED MORTALITY RATES *
SELECTED CAUSES OF DEATH
MINNESOTA, 1950 TO 1980



*Note that the death rate scale is logarithmic in form.

Marriage and Divorce

Marriages and Divorces in the 1970's

Minnesota marriages increased in number by 17 percent during the 1970's, bringing the rate per 1,000 population to 9.2, the highest it has been since 1950 when it stood at 10.4 (see Table 8 below). The U.S. rate also increased slightly to 10.9, a rate reached earlier in both 1970 and 1973.

Minnesota divorces increased in number by 46 percent during the 1970's, resulting in a rate of 3.7 events per 1,000 population, the highest ever recorded. The Minnesota rate was, however, well below the U.S. rate of 5.3 events per 1,000 population for 1980. The national divorce rate increased by 49 percent during the decade.

Table 8
NUMBER OF MARRIAGES REPORTED*, DIVORCES GRANTED, AND RATES PER 1,000 POPULATION, MINNESOTA, 1900-1980, VARIOUS YEARS

Year	Marriages* Reported	Rate per 1,000 Population	Divorces Granted	Rate per 1,000 Population
1940	27,419	9.8	2,957	1.1
1941	30,385	10.9	3,294	1.2
1942	26,883	9.9	3,190	1.2
1943	22,703	8.7	3,229	1.2
1944	21,559	8.3	3,961	1.5
1945	26,195	10.0	5,326	2.0
1946	38,354	13.6	7,808	2.8
1947	35,991	12.4	5,705	2.0
1948	33,085	11.3	4,678	1.6
1949	28,659	9.6	4,195	1.4
1950	30,991	10.4	4,049	1.4
1951	26,428	8.8	3,825	1.3
1952	24,595	8.1	3,963	1.3
1953	24,894	8.2	4,068	1.3
1954	24,309	7.8	3,986	1.3
1955	24,854	7.8	3,757	1.2
1956	25,476	7.9	3,894	1.2
1957	24,871	7.6	3,732	1.1
1958	23,554	7.1	3,823	1.2
1959	23,188	6.9	3,761	1.1

Table 8. NUMBER OF MARRIAGES REPORTED*, DIVORCES GRANTED, AND RATES PER 1,000 POPULATION, MINNESOTA, 1900-1980, VARIOUS YEARS (CONT.)

Year	Marriages* Reported	Rate per 1,000 Population	Divorces Granted	Rate per 1,000 Population
1960	23,596	6.9	4,175	1.2
1961	24,123	7.0	4,175	1.2
1962	24,635	7.0	4,495	1.3
1963	25,064	7.1	4,577	1.3
1964	25,453	7.2	5,100	1.4
1965	26,472	7.4	4,848	1.4
1966	26,566	7.3	5,457	1.5
1967	28,163	7.7	6,148	1.7
1968	30,671	8.3	6,646	1.8
1969	31,971	8.5	7,496	2.0
1970	31,280	8.2	8,221	2.2
1971	31,196	8.1	9,494	2.5
1972	32,227	8.3	10,214	2.6
1973	32,996	8.5	11,113	2.9
1974	33,547	8.6	12,204	3.1
1975	32,237	8.2	13,147	3.3
1976	32,027	8.1	13,764	3.5
1977	33,040	8.3	13,852	3.5
1978	33,480	8.4	14,183	3.5
1979	37,020	9.1	14,761	3.6
1980	37,625	9.2	15,274	3.7
1900	13,420	7.7	989	.6
1910**	-	-	-	-
1922***	24,248	10.0	2,587	1.1
1930	22,697	8.9	2,855	1.1

* 1940-1957--Data are number of Licenses Issued; 1958-1980--Data are number of Marriages Reported.

** Marriage and divorce data for 1910 is unavailable.

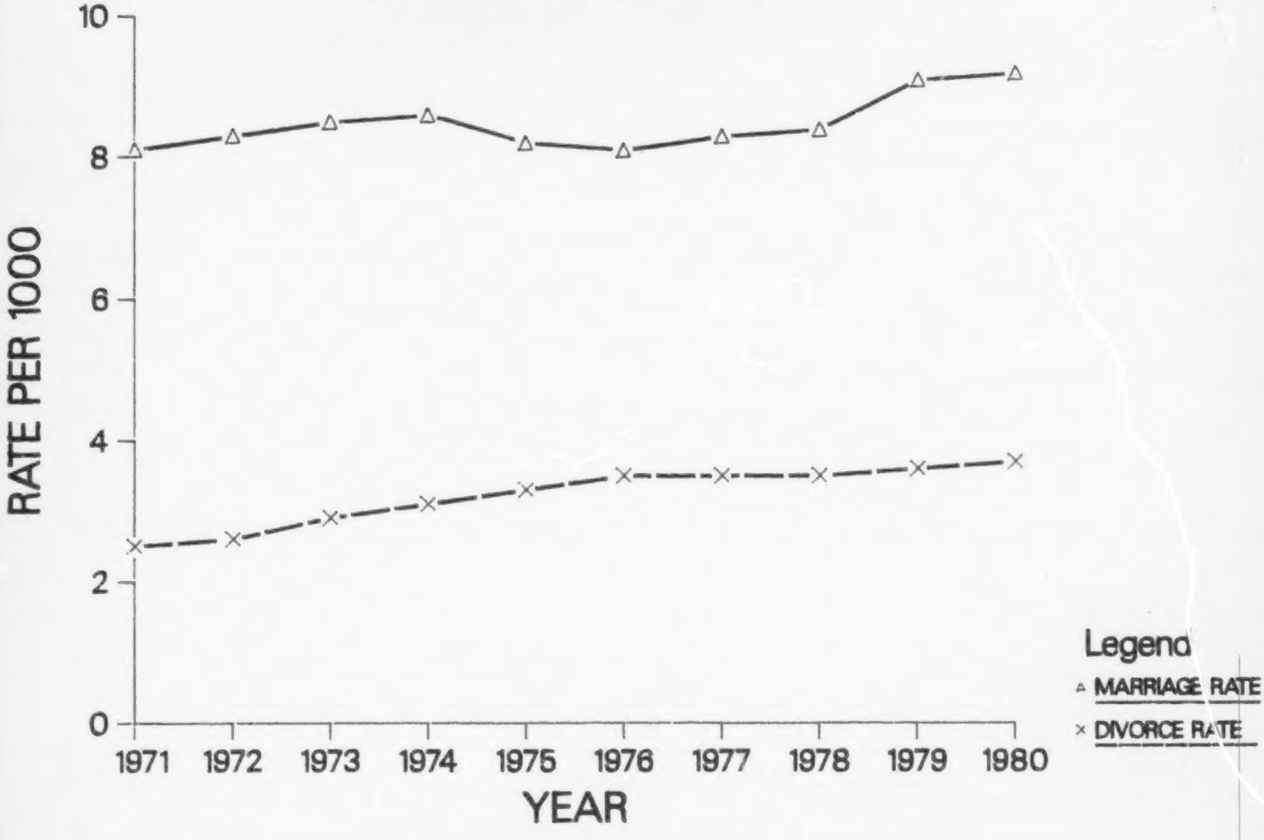
*** Marriage and divorce data for 1920 is unavailable.

Marriage and Divorce Rates, 1900-1980

The Minnesota marriage and divorce trends are summarized over time in Figures 16 and 17 below. Figure 16 suggests a gradual change occurred over the decade in both phenomena. However, Figure 17 indicates that, when viewed from an 80 year perspective, marriage rates have displayed marked variation. In addition, divorce rates have trippled since 1960. The greatest amount of variation over time occurred with marriage where the rate peaked above 10 events per 1,000 population twice in the century, and dropped below seven events per 1,000 population during the interval 1959-1960.

Figure 16

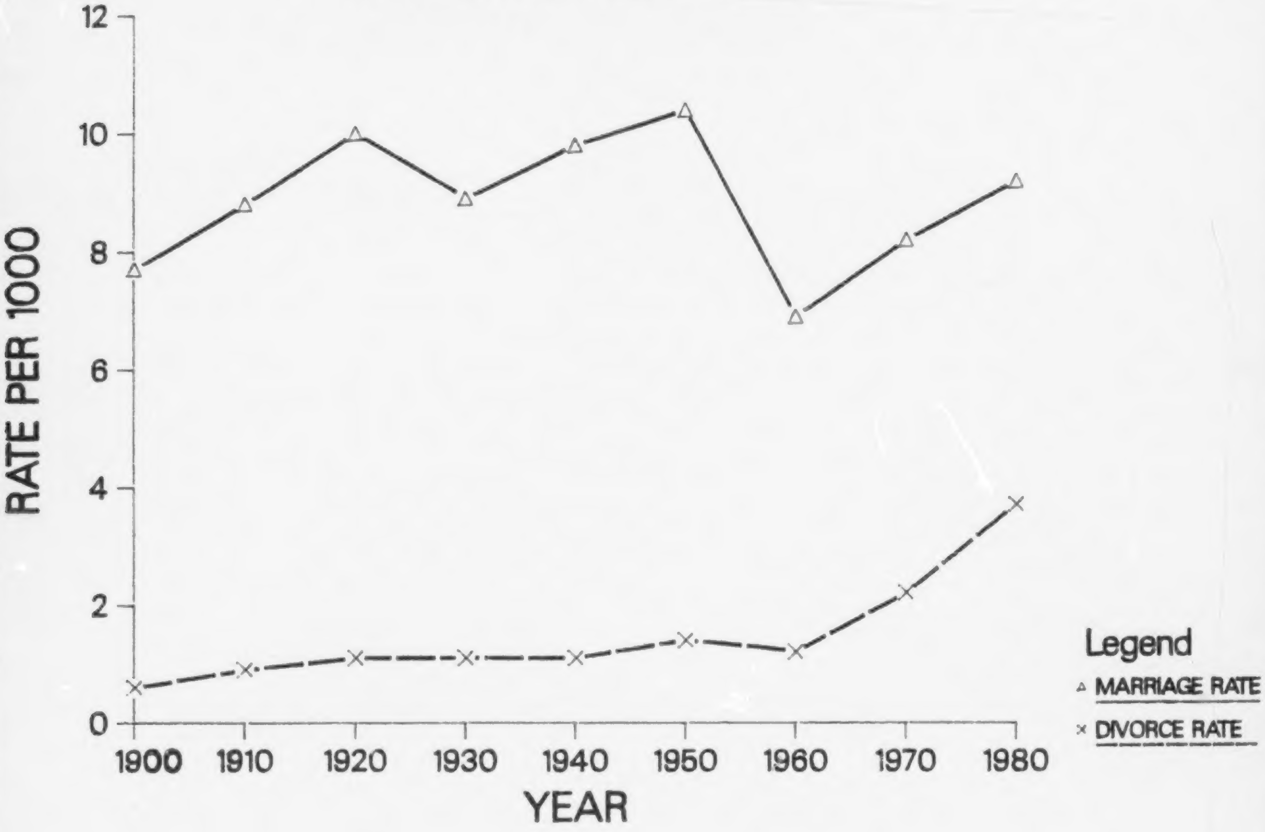
MARRIAGE AND DIVORCE RATE PER 1000 POPULATION
MINNESOTA,1971-1980



The divorce rate increased slowly from 0.6 events per 1,000 population in 1900 to 1.4 events per 1,000 population in 1950 (a 57 percent increase), whereupon it fell to 1.1 events per 1,000 population by 1957-1959 (a 22 percent decrease). Between 1960 and 1980 the divorce rate increased more than threefold from 1.1 events per 1,000 population to 3.7 events per 1,000 population.

Figure 17

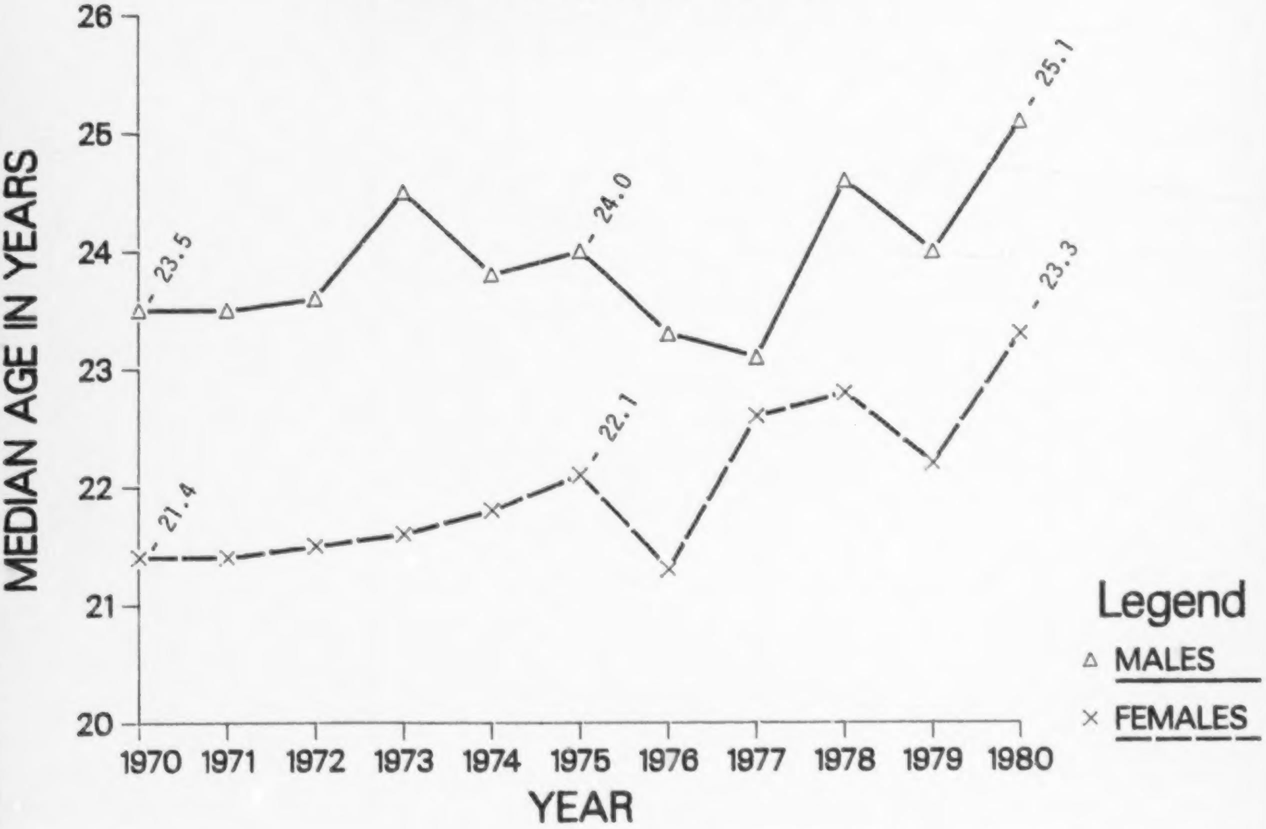
MARRIAGE AND DIVORCE RATE PER 1000 POPULATION
MINNESOTA,1900-1980



Median Ages

The median age of marriage varied during the decade for both brides and grooms (see Figure 18 below). The pattern of variation is similar for both sexes, although males demonstrated more pronounced differences year to year. The median age for both sexes was higher at the end of the decade, paralleling similar national trends. The median age of brides increased by 1.9 years; for grooms median age increased by 1.6 years.

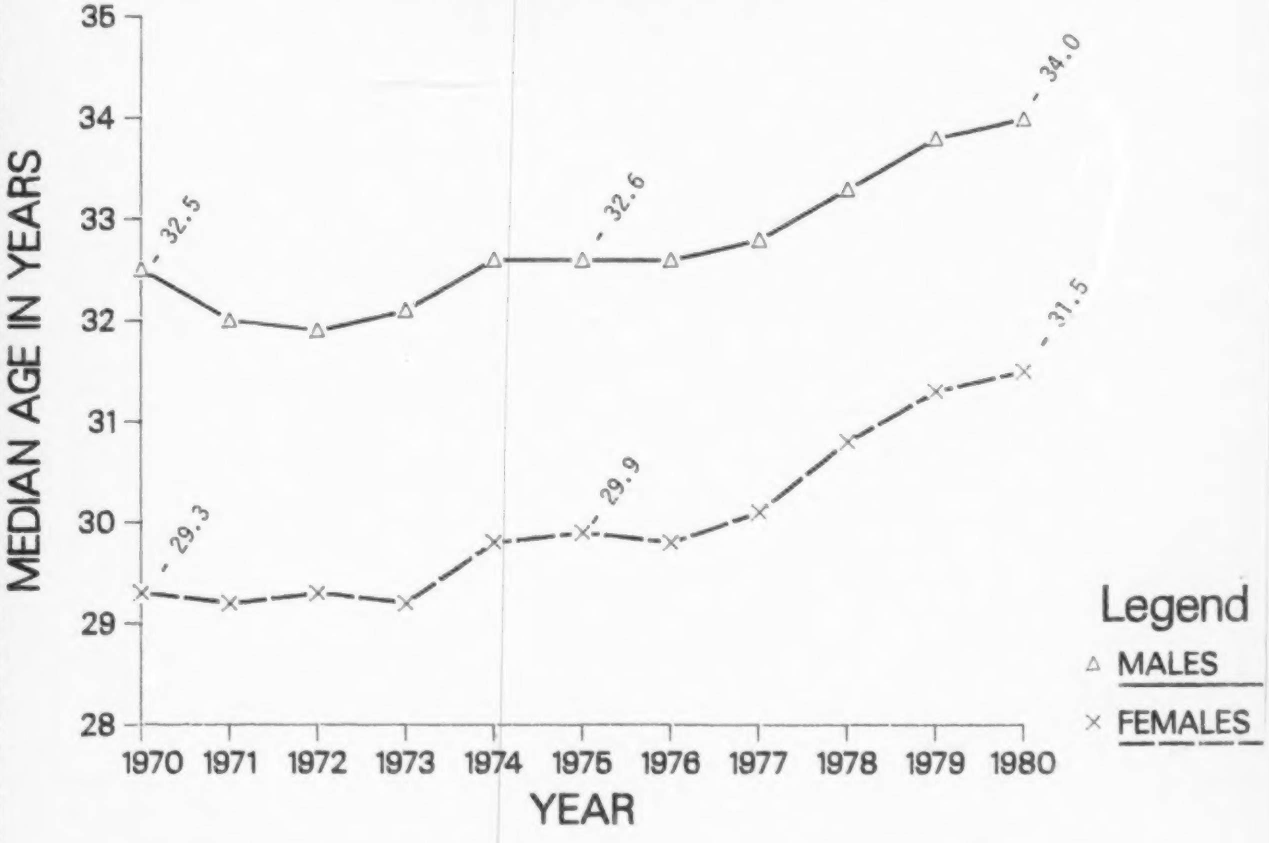
Figure 18



The median age upon divorce steadily increased for both males and females during the decade, although the median age for males has been higher in decades previous to 1970. Figure 19 below suggests the extent of these changes since 1970. The median age of males increased by 1.5 years, while that of females increased by 2.2 years. The median age of divorce for males is approximately two years greater than that of the median age for females--a characteristic similar to that of median age upon marriage.

Figure 19

MEDIAN REPORTED AGE UPON DIVORCE OR ANNULMENT BY SEX
MINNESOTA, 1970-1980



Marriages by Residence

Residency status for brides remained essentially unchanged during the decade (see Table 9 below). However the proportion of grooms who reported a non-resident status decreased from 11.7 percent in 1970 to 9.8 percent in 1980.

Table 9
PERCENT OF MARRIAGES REPORTED IN MINNESOTA BY RESIDENCE STATUS*
1970-1980

	Bride		Groom	
Year	% Minnesota Resident	% Other State/Country	% Minnesota Resident	% Other State/Country
1970	94.4	5.6	88.3	11.7
1971	94.2	5.8	88.5	11.5
1972	94.8	5.2	89.4	10.6
1973	95.0	5.0	89.8	10.2
1974	94.8	5.2	90.1	9.9
1975	94.9	5.1	90.3	9.7
1976	94.8	5.2	89.9	10.1
1977	95.1	4.9	90.5	9.5
1978	94.9	5.1	90.3	9.7
1979	94.6	5.4	90.3	9.7
1980	94.3	5.7	90.2	9.8

* The resident totals are not true resident totals for Minnesota. Information is not available at the present time on the number of Minnesotans who marry in other States.

Marriages by Race

The proportion of marriages occurring in Minnesota by race of bride and groom is shown in Tables 10 and 11 for the years 1970-1980. A number of racial and ethnic groups share in the proportion, however it is predominately white. The proportion of whites engaging in marriage dropped one percent for both brides and grooms during the decade. Blacks experienced a 0.4 percent increase if a bride; a 0.7 percent increase if a groom. The proportion of American Indians increased a small fraction, however the proportion of "other races" increased more substantially. This increase was due primarily to the influx of immigrants from Southeast Asia.

Table 10
PERCENT* OF MARRIAGES OCCURRING IN MINNESOTA
BY RACE OF BRIDE, 1970-1980

Year	Total #	% White	% Black	% Indian	% Other	% Unknown
1970	31,280	89.5	1.0	.4	.5	8.6
1971	31,196	95.0	1.0	.6	.3	3.1
1972	32,227	90.0	.9	.6	.2	8.3
1973	32,996	89.3	1.1	.5	.3	8.8
1974	33,547	89.3	1.2	.6	.3	8.6
1975	32,237	89.1	1.3	.6	.2	8.8
1976	32,027	87.1	1.3	.6	.4	10.6
1977	33,040	87.9	1.4	.6	.4	9.7
1978	33,480	89.2	1.5	.7	.4	8.1
1979	37,020	88.7	1.7	.6	.3	8.6
1980	37,625	88.3	1.7	.6	1.2	8.1

* Percentages may not sum to 100% due to rounding

Table 11
PERCENT* OF MARRIAGES OCCURRING IN MINNESOTA BY RACE OF GROOM, 1970-1980

Year	Total #	% White	% Black	% Indian	% Other	% Unknown
1970	31,280	89.5	.7	.5	.4	8.9
1971	31,196	95.3	.6	.6	.3	3.2
1972	32,227	90.4	.7	.5	.2	8.2
1973	32,996	89.3	.7	.5	.5	9.0
1974	33,547	89.4	.9	.7	.3	8.7
1975	32,237	89.2	.7	.7	.4	9.0
1976	32,027	87.3	.9	.5	.4	10.9
1977	33,040	88.1	1.0	.7	.3	9.9
1978	33,480	89.6	1.0	.6	.3	8.3
1979	37,020	88.6	1.2	.6	.5	9.1
1980	37,625	88.3	1.1	.6	1.2	8.6

* Percentages may not sum to 100% due to rounding

Hospital Utilization in Minnesota, 1970-1980

Summary data regarding the trends in hospital utilization in Minnesota during the past 11 years are shown in Table 12. Between 1970 and 1980 the number of hospitals operating in Minnesota declined from 184 to 172. However, in the same period the number of licensed beds increased from 18,392 in 1970 to 19,794 in 1975, then steadily declined to 18,579 beds in 1980. A similar pattern in the number of admissions was observed over the decade. In 1970 the number of admissions was 620,073, which by 1975 had increased to 664,440 admissions, whereupon admissions declined to 652,112 events.

Although the number of licensed beds and admissions have increased in the past decade, the average length of stay and the percentage of occupancy have decreased. Patients admitted to a hospital in 1980 stayed an average of 1.4 days less than those admitted in 1970. The highest and lowest percent of hospital occupancy were 73.6 and 63.1 for 1970 and 1979, respectively.

Table 12
SELECTED DATA ON HOSPITAL CAPACITY AND UTILIZATION
MINNESOTA, 1970-1980

Year	Number of Hospitals	Licensed Beds		Admissions		Percent Occupancy	Average Length of Stay
		Number	Rate*	Number	Rate*		
1970	184	18,392	4.8	620,073	163	73.6	8.0
1971	181	18,996	4.9	620,645	160	69.6	7.8
1972	181	19,112	4.9	640,051	164	67.6	7.4
1973	181	19,691	5.1	645,154	166	65.0	7.3
1974	180	19,778	5.1	660,816	169	54.1	7.0
1975	180	19,794	5.0	664,440	169	64.2	7.0
1976	178	19,620	5.0	663,152	168	62.9	6.9
1977	178	19,463	4.9	656,146	165	61.6	6.7
1978	178	19,262	4.8	645,191	160	60.9	6.6
1979	175	19,100	4.7	638,329	157	60.8	6.7
1980	172	18,579	4.6	652,112	160	63.1	6.6

* Rate per 1,000 population

Long-Term Care Facilities Utilization In Minnesota, 1975-1980

Four types of long-term care facilities served patients in Minnesota between 1975 and 1980, including nursing homes, convalescent and nursing care units, boarding care homes, and supervised living facilities. Tables 13-16 present selected data on the utilization of these facilities.

Between 1975 and 1980, the number of nursing home licensed beds increased from 32,923 to 37,048; this represents a 12.5 percent increase. The number of convalescent and nursing care (C & NC) licensed beds dropped slightly from 4,301 to 4,211 over the six year period. A large decrease of 37 percent in the number of licensed boarding care beds was reported representing an actual decline from 8,110 beds in 1975 to 5,917 beds in 1980. Supervised living facilities registered the largest increase (about 68 percent) in the number of licensed beds during the six year period as the number of licensed beds increased from 5,364 to 9,008.

The nursing home bed rate per 1,000 population aged 65 and over increased slightly during the decade and, at 76.3 beds per 1,000 elderly, remained well above the national average of 51.2 beds per 1,000 population aged 65 and over (latest national data year = 1976). In the North Central Region (11 states), Minnesota's rate was exceeded only by Wisconsin and Nebraska. The convalescent and nursing care bed rate dropped slightly during the interval between 1976 and 1980, beginning and ending at 9.5 and 8.4 beds respectively.

The boarding care bed rate per 1,000 population of all ages also dropped during the 1976 through 1980 interval, however the supervised living facility bed rate increased throughout the interval. Combining both types of beds statistically, Minnesota's rate emerges at 3.5 beds per 1,000 population in 1980, as compared to 3.2 beds in 1976. This rate exceeds the national rate by 150 percent (1976 data).

The ratio of "beds set up and staffed" to "licensed beds" remained at the 98th and 99th percentile for nursing homes, the 96th to 98th percentile for convalescent and nursing care units, and the 94th to 95th percentile for boarding care homes and supervised living facilities.

As expected, different types of long term care facilities provide different services and have different clientele. Using reported discharge data for 1980, it was determined that 88 percent of discharged clientele from supervised living facilities went home, while 43 percent of those discharged from boarding care homes returned home. Only 20 percent of those discharged from nursing homes returned home, however 32 percent of those discharged from C & NC units returned home in 1980.

Fully 40 percent of all nursing home discharges in 1980 resulted from death, as contrasted with 26 percent of all C & NC discharges. Only eight percent of all discharges from boarding care homes were attributed to death, and very few discharges due to death occurred within supervised living facilities (67 events or .06 percent) in 1980.

Nursing homes discharged 18 percent of their patients in 1980 to hospitals, C & NC units discharged 21 percent of their patients to hospitals, boarding care homes discharged 22 percent of their clients to hospitals, and supervised living facilities discharged proportionately very few (1.2 percent) to hospitals.

Nursing homes discharged very few patients in 1980 to boarding care homes (one percent), however 12 percent went to another nursing home and nine percent were discharged to a supervised living facility.

There was some exchange of clients among supervised living facilities in 1980, however the vast majority returned home upon discharge.

Boarding care homes discharged one fifth of their clients to nursing homes, and few were transferred to other boarding care homes or supervised living facilities.

Table 13
SELECTED DATA ON CONVALESCENT AND NURSING CARE UNIT UTILIZATION
MINNESOTA, 1975-1980

Category		Year 1975	1976	1977	1978	1979	1980
Licensed Beds		4,301	4,381	4,255	4,434	4,536	4,211
Beds Set Up and Staffed		4,227	4,316	4,157	4,348	4,423	4,044
Rate Per 1,000 Population Aged 65 and Over of Beds Set Up and Staffed		9.5	9.6	9.2	9.4	9.4	8.4
Ratio of Beds Set Up/ Licensed		98.3	98.5	97.7	98.1	97.5	96.0
Percent Occupancy*		90.9	91.5	91.8	90.8	93.4	91.8
Admissions		7,289	7,036	6,461	6,253	5,265	4,431
Discharges							
To Home	- #	2,420	2,353	2,394	2,315	1,773	1,361
	- %	(38.5)	(36.8)	(38.4)	(39.3)	(35.9)	(32.1)
To Hospital	- #	1,413	1,411	1,230	1,081	890	885
	- %	(22.5)	(22.1)	(19.8)	(18.4)	(18.7)	(20.8)
To Boarding Care Home	- #	82	77	119	90	56	78
	- %	(1.3)	(1.2)	(1.9)	(1.5)	(1.1)	(1.8)
To Supervised Living Facility	- #	24	98	35	25	16	13
	- %	(0.3)	(1.5)	(0.6)	(0.4)	(0.3)	(0.3)
Death	- #	1,174	1,173	1,201	1,257	1,226	1,107
	- %	(18.7)	(18.4)	(19.3)	(21.4)	(24.9)	(26.1)
Total Discharges	- #	6,290	6,391	6,225	5,889	4,933	4,248
	- %	(100)	(100)	(100)	(100)	(100)	(100)

* The number of beds in operation (set up and staffed) each day which were occupied by patients. The statistical formula is: inpatient days ÷ bed days open X 100.

Table 14
SELECTED DATA ON NURSING HOME UTILIZATION
MINNESOTA, 1975-1980

Category		Year					
		1975	1976	1977	1978	1979	1980
Licensed Beds		32,923	33,758	34,739	35,627	36,413	37,048
Beds Set Up and Staffed		32,363	33,312	34,371	35,228	35,971	36,580
Rate Per 1,000 Population Aged 65 and Over of Beds Set Up and Staffed		73.0	74.2	75.7	76.0	76.5	76.3
Ratio of Beds Set Up/ Licensed		98.3	98.7	98.9	98.9	98.8	98.7
Percent Occupancy*		93.8	92.2	92.8	92.2	91.7	92.5
Admissions		24,893	23,595	20,474	20,445	19,943	19,275
Discharges							
To Home	- #	4,554	4,316	3,846	3,941	4,002	3,661
	- %	(19.1)	(18.7)	(20.1)	(20.2)	(21.1)	(19.5)
To Hospital	- #	9,022	8,225	4,480	3,930	3,788	3,407
	- %	(37.9)	(35.5)	(23.4)	(20.2)	(19.9)	(18.1)
To Nursing Home	- #	1,884	2,107	2,095	2,058	2,111	2,158
	- %	(7.9)	(9.1)	(10.9)	(10.6)	(11.1)	(11.5)
To Boarding Care Home	- #	1,795	1,888	298	281	267	191
	- %	(7.6)	(8.2)	(1.6)	(1.4)	(1.4)	(1.0)
To Supervised Living Facility	- #	134	92	1,934	1,801	1,696	1,749
	- %	(0.6)	(0.4)	(10.1)	(9.2)	(8.9)	(9.3)
Death	- #	6,390	6,505	6,499	7,480	7,145	7,647
	- %	(26.9)	(28.1)	(33.9)	(38.4)	(37.6)	(40.6)
Total Discharges	- #	23,779	23,133	19,152	19,491	19,009	18,813
	- %	(100)	(100)	(100)	(100)	(100)	(100)

* The number of beds in operation (set up and staffed) each day which were occupied by patients. The statistical formula is: inpatient days ÷ bed days open X 100.

Table 15
SELECTED DATA ON BOARDING CARE HOME CAPACITY, UTILIZATION AND DISPOSITION OF PATIENT UPON DISCHARGE
MINNESOTA, 1975-1980

Category		Year					
		1975	1976	1977	1978	1979	1980
Licensed Beds		8,110	7,526	7,214	6,464	6,197	5,917
Beds Set Up and Staffed		7,637	7,072	6,789	6,110	5,898	5,650
Rate Per 1,000 Population of Beds Set Up and Staffed		1.9	1.8	1.7	1.5	1.4	1.4
Ratio of Beds Set Up/ Licensed		94.1	94.0	94.1	94.5	95.1	95.5
Percent Occupancy*		89.4	88.6	90.1	85.8	88.9	87.7
Admissions		4,054	3,551	2,895	2,430	2,383	2,150
Discharges							
To Home	- #	1,638	1,520	1,227	941	904	845
	- %	(45.1)	(47.7)	(45.4)	(42.3)	(40.5)	(42.9)
To Hospital	- #	951	783	566	462	492	426
	- %	(26.2)	(24.2)	(20.9)	(20.8)	(22.1)	(21.6)
To Nursing Home	- #	609	605	559	522	492	421
	- %	(16.8)	(18.7)	(20.7)	(23.5)	(22.1)	(21.4)
To Boarding Care Home	- #	99	95	136	78	129	82
	- %	(2.7)	(2.9)	(5.0)	(3.5)	(5.8)	(4.2)
To Supervised Living Facility	- #	98	38	42	36	39	31
	- %	(2.7)	(1.2)	(1.6)	(1.6)	(1.7)	(1.6)
Death	- #	234	190	173	186	174	164
	- %	(6.5)	(5.9)	(6.4)	(8.3)	(7.8)	(8.3)
Total Discharges	- #	3,629	3,231	2,703	2,225	2,230	1,969
	- %	(100)	(100)	(100)	(100)	(100)	(100)

* The number of beds in operation (set up and staffed) each day which were occupied by patients. The statistical formula is: inpatient days ÷ bed days open X 100.

Table 16
SELECTED DATA ON SUPERVISED LIVING FACILITY UTILIZATION
MINNESOTA, 1975-1980

Category		Year 1975	1976	1977	1978	1979	1980
Licensed Beds		5,364	6,196	6,498	7,965	8,118	9,008
Beds Set Up and Staffed		5,017	5,887	6,288	7,602	7,856	8,673
Rate Per 1,000 Population of Beds Set Up and Staffed		1.3	1.5	1.6	1.9	1.9	2.1
Ratio of Beds Set Up/ Licensed		93.5	95.0	96.8	95.4	96.8	96.3
Percent Occupancy*		92.3	88.3	88.5	82.6	84.2	85.6
Admissions		3,385	5,175	8,934	12,030	11,606	13,748
Discharges							
To Home	- #	2,164	3,014	7,642	9,340	9,477	9,716
	- %	(73.2)	(71.6)	(89.3)	(86.8)	(88.6)	(88.2)
To Hospital	- #	153	152	184	151	98	129
	- %	(5.2)	(3.6)	(2.2)	(1.4)	(0.9)	(1.2)
To Nursing Home	- #	49	50	59	59	61	38
	- %	(1.7)	(1.2)	(0.7)	(0.5)	(0.6)	(0.4)
To Boarding Care Home	- #	297	351	301	495	351	236
	- %	(10.0)	(8.3)	(3.5)	(4.6)	(3.3)	(2.1)
To Supervised Living Facility	- #	233	595	303	666	661	830
	- %	(7.9)	(14.1)	(3.5)	(6.2)	(6.7)	(7.5)
Death	- #	60	52	70	52	54	67
	- %	(2.0)	(1.2)	(0.8)	(0.5)	(0.5)	(0.6)
Total Discharges		2,956 (100)	4,214 (100)	8,559 (100)	10,763 (100)	10,702 (100)	11,016 (100)

* The number of beds in operation (set up and staffed) each day which were occupied by patients. The statistical formula is: inpatient days ÷ bed days open X 100.

Overview of 1980 Vital Statistics

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Table 17
PERCENT CHANGES BETWEEN 1979 AND 1980
SELECTED MINNESOTA HEALTH STATISTICS

Category	Percent Change	1979	1980
Population	+0.4	4,059,999	4,075,970
Births	+3.9	65,325	67,843
Birth Rate	+3.1	16.1	16.6
Out-of-Wedlock Percent	+6.5	10.7%	11.4%
Fertility Rate	+3.5	68.4	70.8
Population of Women 15-44	+0.4	955,260	958,773
White Births	+2.9	61,261	63,067
Black Births	+4.5	1,449	1,514
Indian Births	+10.6	1,106	1,223
Prenatal Care--Third Trimester or none	+3.2	3.1%	3.2%
Median Number of Prenatal Care Visits	+0.9	10.8	10.9
Infants Weighing Less Than 2,500 Grams	0.0	5.1%	5.1%
Less Than 37 Weeks Gestation	-2.9	7.0%	6.8%
Deaths	+4.2	32,082	33,415
Fetal Deaths	+0.9	445	449
Infant Deaths	-3.0	700	679
Neonatal Deaths	-10.2	469	421
Infant Mortality Rate	-6.5	10.7	10.0
Neonatal Mortality Rate	-13.9	7.2	6.2
Violent Deaths	-1.1	2,445	2,419
Homicide	+14.3	105	120
Accidents	-3.0	1,861	1,806
Suicide	+5.8	416	440
Undetermined Whether Accident, Suicide, or Homicide	-15.9	63	53
Marriages	+1.6	37,020	37,625
Divorces and Annulments	+3.5	14,761	15,274

Table 18

BIRTHS, DEATHS, INFANT DEATHS, FETAL DEATHS, MARRIAGES, DIVORCES AND ANNULMENTS BY MONTH MINNESOTA OCCURRENCES, 1980

	Births	Deaths	Infant Deaths	Fetal Deaths	Marriages	Divorces & Annulments
Total	68,328	34,015	724	469	37,625	15,274
January	5,203	2,989	71	38	1,385	1,307
February	5,511	3,034	57	31	1,693	1,202
March	5,799	3,087	45	40	2,003	1,184
April	5,571	2,701	59	29	2,508	1,328
May	5,644	2,781	46	45	4,016	1,192
June	5,534	2,615	51	37	5,064	1,242
July	6,027	2,850	55	44	3,370	1,359
August	6,157	2,604	56	45	5,173	1,200
September	5,925	2,643	59	39	4,138	1,252
October	5,823	2,914	87	39	3,344	1,348
November	5,421	2,784	64	46	2,677	1,141
December	5,713	3,013	74	36	2,253	1,518
Unknown	-	-	-	-	1	1

Table 19

LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1980

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Afton	32	-	14	-	-
Albert Lea	283	2	213	4	3
Alexandria	136	-	137	3	2
Andover	151	-	20	1	1
Anoka	376	3	117	3	1
Apple Valley	439	1	36	4	-
Arden Hills	131	-	51	2	2
Aurora	40	1	22	-	-
Austin	317	1	262	1	-
Baxter	38	1	10	1	-
Bayport	16	-	24	-	-
Belle Plaine	60	1	40	-	-
Bemidji	205	-	118	2	1
Benson	59	-	39	1	-
Blaine	573	7	62	4	1
Bloomington	991	6	417	9	5
Blue Earth	61	-	79	1	-
Brainerd	225	2	168	2	1
Breckenridge	67	-	41	1	1
Brooklyn Center	429	2	135	2	1
Brooklyn Park	1,036	7	107	6	2
Buffalo	117	2	66	1	-
Burnsville	585	3	82	3	2
Caledonia	32	-	36	-	-
Cambridge	54	2	78	2	-
Cannon Falls	79	-	35	1	1
Champlin	188	3	26	1	1
Chanhassen	79	1	21	1	-
Chaska	189	2	40	1	-
Chisholm	87	2	69	1	1
Circle Pines	93	-	18	2	1
Cloquet	200	-	123	3	1
Columbia Heights	299	3	115	2	-
Coon Rapids	633	6	115	9	4
Corcoran	92	-	20	1	1
Cottage Grove	374	3	36	-	-
Crookston	153	-	113	-	-
Crystal	345	1	133	5	4
Dayton	71	1	12	-	-
Deephaven	36	-	16	1	1

Table 19
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1980 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Detroit Lakes	111	2	129	3	1
Dilworth	48	-	12	1	1
Duluth	1,574	12	1,118	20	11
Eagan	434	2	36	2	1
East Bethel	99	2	18	-	-
East Grand Forks	199	-	61	1	1
Eden Prairie	352	2	27	2	1
Edina	299	1	358	2	1
Elk River	168	-	47	5	2
Ely	58	1	69	-	-
Eveleth	101	-	68	2	1
Excelsior	79	-	39	1	-
Fairmont	173	3	134	3	2
Falcon Heights	87	1	27	-	-
Faribault	339	-	201	1	1
Farmington	150	2	36	-	-
Fergus Falls	184	2	149	1	-
Forest Lake	138	-	75	1	-
Fridley	447	3	133	3	2
Gilbert	63	3	30	-	-
Glencoe	68	-	41	-	-
Glenwood	33	1	56	-	-
Golden Valley	205	1	168	-	-
Goodview	19	1	16	-	-
Grand Rapids	145	-	112	1	1
Granite Falls	53	-	48	-	-
Ham Lake	152	-	14	1	-
Hastings	285	3	114	4	2
Hermantown	34	2	14	-	-
Hibbing	345	1	251	3	3
Hopkins	245	2	167	1	1
Hoyt Lakes	40	-	11	-	-
Hugo	56	-	15	1	1
Hutchinson	176	2	69	-	-
Independence	29	1	6	1	-
International Falls	161	1	85	1	1
Inver Grove Heights	356	4	87	1	1
Jackson	67	-	49	1	-
Jordan	67	1	23	1	-
Kasson	94	1	15	1	-

Table 19
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1980 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
La Crescent	74	-	26	-	-
Lake City	74	-	67	1	1
Lake Elmo	89	-	26	5	1
Lakeville	262	-	35	3	2
Le Sueur	57	-	63	1	1
Lino Lakes	122	-	14	1	-
Litchfield	88	1	95	-	-
Little Canada	126	-	36	1	-
Little Falls	120	-	132	2	2
Long Prairie	46	-	40	1	1
Luverne	71	-	45	-	-
Mahtomedi	48	1	21	1	1
Mankato	513	2	219	5	3
Maple Grove	489	3	31	4	2
Maplewood	382	4	196	3	-
Marshall	182	1	79	5	1
Medina	39	1	5	-	-
Mendota Heights	69	1	33	1	-
Minneapolis	5,941	39	4,218	78	45
Minnetonka	428	4	189	3	3
Minnetrista	23	-	6	-	-
Montevideo	108	-	84	1	1
Monticello	93	-	27	-	-
Moorhead	408	1	190	2	1
Mora	49	-	62	1	-
Morris	72	-	56	2	1
Mound	189	3	56	4	1
Mounds View	224	2	28	6	4
Mountain Iron	70	-	27	-	-
New Brighton	353	3	114	3	3
New Hope	333	3	137	2	1
Newport	81	2	15	2	1
New Prague	56	-	44	-	-
New Ulm	244	1	140	4	3
Northfield	156	1	93	2	-
North Mankato	186	3	42	5	2
North Oaks	17	-	15	-	-
North St. Paul	226	3	49	1	1
Oakdale	221	2	44	3	1
Oak Park Heights	16	-	17	-	-

Table 19

LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1980 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Olivia	76	-	32	-	-
Orono	43	-	21	-	-
Ortonville	34	1	50	1	1
Osseo	75	-	47	-	-
Owatonna	349	1	179	7	2
Park Rapids	39	1	74	1	-
Pipestone	68	2	75	-	-
Plymouth	463	3	110	1	1
Princeton	69	1	57	-	-
Prior Lake	170	-	30	2	-
Proctor	42	1	33	-	-
Ramsey	165	-	13	3	1
Red Wing	218	2	186	5	2
Redwood Falls	80	-	77	1	-
Richfield	474	4	240	4	2
Robbinsdale	188	1	142	-	-
Rochester	1,136	4	435	11	7
Rosemount	150	1	17	-	-
Roseville	357	1	266	-	-
St. Anthony	54	-	58	-	-
St. Cloud	686	2	315	10	4
St. James	89	1	65	1	1
St. Joseph	55	-	8	-	-
St. Louis Park	558	4	400	1	1
St. Paul	4,802	27	2,871	53	30
St. Paul Park	96	-	25	3	1
St. Peter	120	-	73	-	-
Sartell	107	-	44	-	-
Sauk Centre	59	-	41	-	-
Sauk Rapids	126	-	52	-	-
Savage	77	1	7	-	-
Shakopee	223	1	56	-	-
Shoreview	255	-	52	4	1
Shorewood	51	-	20	-	-
Silver Bay	45	-	13	-	-

Table 19
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1980 (CONT.)

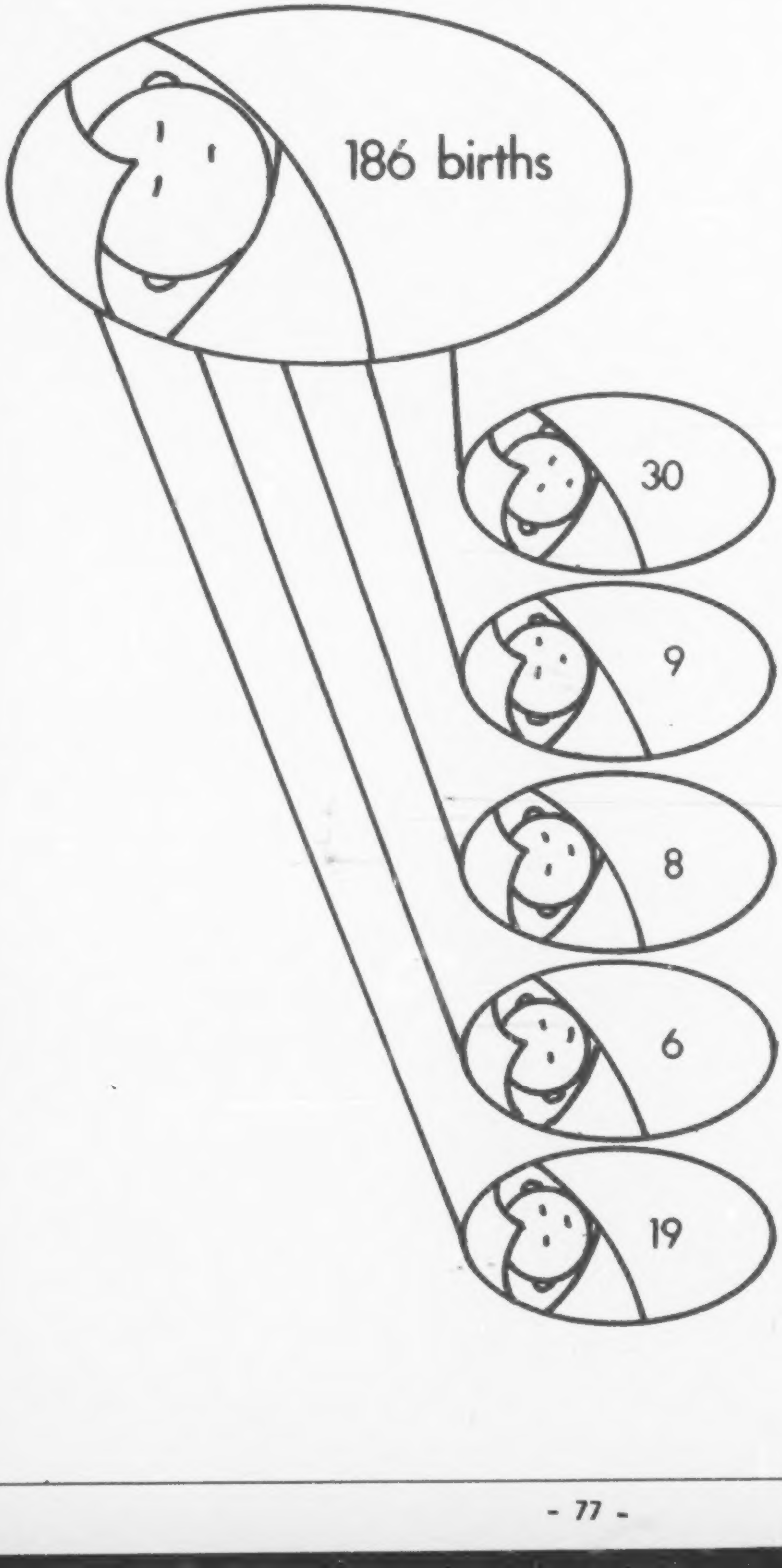
Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Sleepy Eye	56	-	45	-	-
S. International Falls	45	-	11	-	-
S. St. Paul	376	2	165	1	-
Spring Lake Park	99	1	13	1	1
Spring Valley	35	-	36	2	1
Staples	51	1	52	-	-
Stewartville	111	-	43	3	-
Stillwater	296	1	147	2	1
Thief River Falls	152	2	108	2	1
Two Harbors	80	1	65	2	1
Vadnais Heights	108	-	14	1	-
Virginia	157	-	158	-	-
Waconia	39	-	32	-	-
Wadena	80	-	56	1	-
Waite Park	68	-	32	2	2
Waseca	158	3	74	-	-
Wayzata	66	-	46	-	-
Wells	53	1	45	2	1
West St. Paul	226	2	166	1	1
White Bear Lake	501	5	148	4	1
Willmar	267	1	178	6	3
Windom	69	-	65	-	-
Winona	338	2	291	7	3
Woodbury	172	-	26	-	-
Worthington	165	2	102	2	1

* Municipalities with population of 2,500 or more.

Live Births

BEST AVAILABLE COPY

Every day in 1980, residents of Minnesota experienced an average of:



186 births

30 High Risk Births

9 Births Weighing 2,500 Grams or Less

8 Births to Women Aged 35 or Older

6 Births in which Prenatal Care was Initiated Late or Not at All

19 Births to Women Aged 19 or Under

Table 20

LIVE BIRTHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE, RESIDENT LIVE BIRTHS DISTRIBUTED ACCORDING TO PLACE OF BIRTH, MINNESOTA, 1980

County	Births Occurring in County				Resident Births		
					Outside County		
	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
State Total	68,328	46,776	19,222	2,330	19,222	1,845	67,843
Aitkin	122	111	10	1	77	-	188
Anoka	3,671	2,172	1,489	10	1,423	10	3,605
Becker	515	409	105	1	75	64	548
Beltrami	805	591	209	5	45	2	638
Benton	-	-	-	-	597	-	597
Big Stone	192	107	32	53	14	3	124
Blue Earth	1,415	869	541	5	62	3	934
Brown	694	437	257	-	45	-	482
Carlton	399	251	146	2	228	-	479
Carver	767	294	472	1	346	1	641
Cass	59	40	18	1	265	4	309
Chippewa	222	143	77	2	96	1	240
Chisago	322	188	129	5	220	55	463
Clay	399	275	52	72	13	414	702
Clearwater	128	96	32	-	57	1	154
Cook	47	45	2	-	18	1	64
Cottonwood	200	148	51	1	66	3	217
Crow Wing	754	589	164	1	69	1	659
Dakota	918	683	182	53	2,855	7	3,545
Dodge	-	-	-	-	292	-	292
Douglas	541	403	135	3	44	1	448
Faribault	289	222	30	37	113	-	335
Fillmore	175	119	51	5	160	87	366
Freeborn	647	490	96	61	61	5	556
Goodhue	777	481	103	193	211	-	692
Grant	54	49	5	-	64	3	116
Hennepin	18,145	12,716	5,329	100	1,320	25	14,061
Minneapolis	10,218	4,272	5,862	84	1,652	17	5,941
Houston	76	62	9	5	12	238	312
Hubbard	274	169	103	2	74	6	249
Isanti	445	247	198	-	128	1	376
Itasca	698	627	69	2	159	2	788
Jackson	75	66	8	1	130	21	217
Kanabec	300	165	134	1	82	-	247
Kandiyohi	856	577	276	3	54	-	631
Kittson	121	83	37	1	24	28	135
Koochiching	245	235	10	-	39	27	301
Lac Qui Parle	102	93	4	5	50	3	146
Lake	133	120	13	-	93	-	213
Lake of the Woods	85	63	21	1	6	-	69
Le Sueur	94	69	25	-	314	1	384
Lincoln	154	86	30	38	45	8	139
Lyon	516	400	115	1	47	17	464
McLeod	549	393	155	1	117	-	510
Mahnomen	52	40	11	1	67	4	111

Table 20
LIVE BIRTHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE, RESIDENT LIVE BIRTHS DISTRIBUTED ACCORDING TO PLACE OF BIRTH, MINNESOTA, 1980 (CONT.)

County	Births Occurring in County				Resident Births		
					Outside County		
	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
Marshall	41	35	3	3	104	55	194
Martin	459	330	34	95	38	13	381
Meeker	281	199	82	-	146	1	346
Mille Lacs	418	239	179	-	68	-	307
Morrison	555	453	102	-	89	1	543
Mower	497	436	57	4	137	16	589
Murray	119	103	15	1	81	4	188
Nicollet	150	80	70	-	390	1	471
Nobles	488	283	171	34	36	32	351
Norman	67	52	13	2	39	69	160
Olmsted	2,488	1,645	804	39	26	3	1,674
Otter Tail	660	575	81	4	183	29	787
Pennington	461	244	214	3	10	12	266
Pine	29	27	1	1	333	12	372
Pipestone	168	135	28	5	26	24	185
Polk	387	311	69	7	67	245	623
Pope	136	116	18	2	70	1	187
Ramsey	9,149	5,908	3,048	193	1,703	15	7,626
St. Paul	9,139	3,997	4,950	192	795	10	4,802
Red Lake	24	20	4	-	87	3	110
Redwood	217	154	62	1	129	3	286
Renville	167	152	10	5	201	-	353
Rice	772	632	140	-	146	-	778
Rock	256	156	53	47	5	29	190
Roseau	198	177	13	8	58	5	240
St. Louis	4,412	3,332	510	570	84	5	3,421
Duluth	2,815	1,559	688	568	12	3	1,574
Scott	965	519	444	2	302	-	821
Sherburne	2	2	-	-	604	2	608
Sibley	114	103	11	-	152	1	256
Stearns	2,941	1,852	1,084	5	121	6	1,979
Steele	553	451	101	1	78	-	529
Stevens	197	148	49	-	18	3	169
Swift	123	113	10	-	104	-	217
Todd	248	210	38	-	251	4	465
Traverse	85	44	20	21	31	8	83
Wabasha	321	183	48	90	147	1	331
Wadena	447	186	261	-	46	5	237
Waseca	227	201	26	-	140	-	341
Washington	663	367	165	131	1,549	22	1,938
Watonwan	185	163	22	-	55	1	219
Wilkin	412	106	15	291	19	17	142
Winona	605	467	67	71	103	149	719
Wright	354	295	59	-	886	-	1,181
Yellow Medicine	255	149	86	20	83	1	233

Table 21
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*
MINNESOTA, 1980

	State	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth	Brown
Live Births	67,843**	188	3,605	548	638	597**	124	934	482
Fertility Rate	70.8	77.3	69.6	91.8	83.8	100.5	92.3	68.5	78.0
Birth Rate	16.6	14.0	18.4	18.7	20.6	23.7	16.1	17.9	16.8
Sex: Male	34,897	95	1,846	297	345	285	51	483	241
Female	32,944	93	1,759	251	293	310	73	451	241
Out-of-Wedlock, Percent	11.4	11.2	10.4	15.9	24.1	7.7	6.5	10.1	8.7
Race: White	63,067	177	2,982	482	487	591	123	916	478
Black	1,514	-	8	1	2	1	-	6	-
Indian	1,223	9	18	63	146	4	-	3	1
Live Birth Order									
Median	2.2	2.4	2.2	2.4	2.2	2.4	2.3	2.2	2.3
% 5th or over	3.6	5.3	1.9	5.8	4.1	7.7	4.8	3.2	4.1
Prematurity, Percent									
Less than 37 weeks	6.8	6.4	4.7	9.3	9.1	8.2	7.3	5.0	7.3
2,500 grams or less	5.1	3.2	4.3	5.7	4.4	4.4	4.8	4.3	3.9
Plurality:									
Single	66,615	182	3,545	541	621	583	122	926	478
Twin	1,204	6	57	7	17	14	2	8	4
Triplet	24	-	3	-	-	-	-	-	-
Mother's Age, Percent									
Under 18	3.0	3.2	3.1	4.6	4.4	2.3	3.2	2.4	2.1
18-19	7.4	8.0	7.2	12.0	12.2	8.0	8.9	6.0	8.9
40 and over	.6	1.1	.3	.7	.3	1.0	-	.6	.8
Mother's Education, Percent									
Less than 12 years	10.9	13.3	9.2	16.4	20.4	10.9	8.1	8.4	5.4
Over 3 years college	16.0	9.0	10.7	9.7	18.2	12.6	12.1	16.8	9.8
Prenatal Care Began, Percent									
3rd Trimester or none	3.2	5.9	2.7	3.8	5.2	1.2	3.2	2.8	1.7
Prenatal Care Visits									
Median	10.9	9.9	10.7	11.3	10.3	10.5	10.7	11.4	10.5
Congenital Anomalies, Percent	1.3	1.6	.6	1.6	1.4	1.2	.8	1.2	1.5
High Risk, Percent	16.4	18.6	12.6	17.2	20.5	11.4	12.9	13.1	12.4
Birth Injuries, Percent	1.8	3.2	.9	1.3	2.4	.7	-	1.4	1.9
Infant Deaths									
Total	679	4	33	10	5	5	2	8	7
White	614	4	32	10	3	5	2	8	7
Black	31	-	-	-	-	-	-	-	-
Indian	20	-	-	-	1	-	-	-	-
Neonatal Deaths									
Total	421	1	17	7	3	2	2	3	5
White	386	1	17	7	2	2	2	3	5
Black	19	-	-	-	-	-	-	-	-
Indian	8	-	-	-	-	-	-	-	-
First Day Deaths									
Total	232	-	9	5	1	2	2	1	2
White	211	-	9	5	1	2	2	1	2
Black	13	-	-	-	-	-	-	-	-
Indian	3	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	110	1	6	1	-	-	-	2	3
White	100	1	6	1	-	-	-	2	3
Black	5	-	-	-	-	-	-	-	-
Indian	4	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	79	-	2	1	2	-	-	-	-
White	75	-	2	1	1	-	-	-	-
Black	1	-	-	-	-	-	-	-	-
Indian	1	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	449	2	27	8	2	4	1	4	1
White	395	2	24	7	1	3	1	4	1
Black	16	-	-	-	-	-	-	-	-
Indian	5	-	-	-	-	-	-	-	-
Perinatal Rate	12.8	16.0	12.2	27.4	7.8	10.1	24.2	7.5	12.4
Maternal Deaths	4	-	-	-	-	-	-	-	-

Table 21
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

	Carlton	Carver	Cass	Chippewa	Chisago	Clay	Clear-water	Cook	Cotton-wood	Crow Wing
Live Births	479	641	309	240	463	702	154	64	217	659
Fertility Rate	76.3	72.0	80.7	83.7	83.2	52.7	93.1	74.4	79.8	76.1
Birth Rate	16.0	17.3	14.7	16.1	18.0	14.2	17.6	15.6	14.6	15.8
Sex: Male	250	332	159	126	255	373	82	39	103	329
Female	229	309	150	114	208	329	72	25	114	330
Out-of-Wedlock, Percent	13.4	5.5	23.0	4.6	9.3	7.4	16.2	17.2	6.5	10.9
Race: White	459	636	239	238	460	685	120	58	214	653
Black	1	-	-	-	-	7	-	-	-	2
Indian	19	2	69	-	-	6	32	6	1	3
Live Birth Order										
Median	2.2	2.3	2.4	2.3	2.3	2.2	2.6	2.2	2.4	2.3
% 5th or over	2.3	3.9	5.5	2.1	3.9	2.8	4.5	4.7	4.6	4.7
Prematurity, Percent										
Less than 37 weeks	6.5	6.1	10.0	4.6	8.2	6.0	10.4	14.1	8.8	7.6
2,500 grams or less	5.0	6.1	8.7	2.9	4.3	5.0	2.6	10.9	5.5	5.2
Plurality:										
Single	471	626	303	236	456	695	154	64	214	647
Twin	8	15	6	4	7	7	-	-	-	12
Triplet	-	-	-	-	-	-	-	-	3	-
Mother's Age, Percent										
Under 18	3.3	1.6	5.2	1.3	4.8	2.7	7.1	4.7	4.1	4.2
18-19	11.3	6.7	10.0	8.8	9.1	6.7	8.4	6.3	3.2	8.6
40 and over	.6	.6	1.6	.8	.2	.9	1.3	1.6	.5	.3
Mother's Education, Percent										
Less than 12 years	11.1	7.0	16.8	6.7	15.3	8.3	20.8	14.1	9.7	14.9
Over 3 years college	12.1	15.3	9.4	11.7	11.4	16.8	9.7	18.8	10.6	12.9
Prenatal Care Began, Percent										
3rd Trimester or none	2.9	1.2	7.1	2.5	3.5	2.8	5.8	6.3	1.8	5.5
Prenatal Care Visits										
Median	10.5	11.6	8.5	10.3	10.3	11.6	10.1	11.8	11.1	9.1
Congenital Anomalies, Percent	1.3	2.3	1.6	2.9	3.0	2.0	2.6	1.6	1.4	1.5
High Risk, Percent	14.8	15.9	26.2	18.8	17.3	14.7	14.3	32.8	18.4	18.1
Birth Injuries, Percent	1.9	1.6	3.2	1.3	2.6	1.9	-	3.1	3.2	2.9
Infant Deaths										
Total	7	6	4	1	10	4	2	-	-	8
White	7	6	4	1	10	4	1	-	-	8
Black	-	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	1	-	-	-
Neonatal Deaths										
Total	4	5	3	1	5	3	-	-	-	5
White	4	5	3	1	5	3	-	-	-	5
Black	-	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-	-
First Day Deaths										
Total	1	3	3	1	5	1	-	-	-	3
White	1	3	3	1	5	1	-	-	-	3
Black	-	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-	-
1-6 Day Deaths										
Total	2	1	-	-	-	2	-	-	-	1
White	2	1	-	-	-	2	-	-	-	1
Black	-	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-	-
7-27 Day Deaths										
Total	1	1	-	-	-	-	-	-	-	1
White	1	1	-	-	-	-	-	-	-	1
Black	-	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-	-
Fetal Deaths										
Total	1	7	3	-	2	1	3	1	3	7
White	1	7	2	-	2	-	2	1	3	7
Black	-	-	-	-	-	-	-	-	-	-
Indian	-	-	1	-	-	-	-	-	-	-
Perinatal Rate	10.4	18.7	19.4	4.2	15.1	5.7	19.5	15.6	13.8	18.2
Maternal Deaths	-	-	-	-	-	-	-	-	-	-

Table 21

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

	Dakota	Dodge	Douglas	Fari-bault	Fill-more	Free-born	Good-hue	Grant	Hennepin	Minn-eapoli
Live Births	3,545	292	448	335	366	556	692	116	14,061	5,941
Fertility Rate	70.2	92.8	76.9	90.2	90.8	75.6	86.8	91.1	58.3	61.7
Birth Rate	18.2	19.8	16.1	17.0	16.7	15.3	17.9	16.2	14.9	16.0
Sex: Male	1,800	135	216	171	196	297	338	58	7,189	3,030
Female	1,745	157	232	164	170	259	354	58	6,872	2,911
Out-of-Wedlock, Percent	9.1	7.9	6.7	6.3	7.7	8.1	8.2	4.3	16.1	27.0
Race: White	3,443	289	447	334	362	553	683	115	12,174	4,478
Black	23	-	-	-	-	-	-	-	987	849
Indian	18	1	1	-	2	-	5	-	396	353
Live Birth Order										
Median	2.2	2.3	2.3	2.3	2.4	2.3	2.3	2.4	2.1	2.0
% 5th or over	2.6	2.4	3.1	1.2	6.0	2.3	3.8	4.3	2.8	3.5
Prematurity, Percent										
Less than 37 weeks	5.6	5.5	6.5	7.2	6.3	8.5	7.1	7.8	7.2	8.0
2,500 grams or less	4.4	2.4	6.5	5.1	4.4	5.2	4.9	3.4	5.8	6.6
Plurality:										
Single	3,493	292	441	331	358	546	676	114	13,789	5,847
Twin	52	-	4	4	8	10	16	2	260	88
Triplet	-	-	3	-	-	-	-	-	12	6
Mother's Age, Percent										
Under 18	2.6	2.7	2.7	3.0	3.0	2.7	3.3	.9	2.9	4.7
18-19	5.5	7.9	10.0	6.9	7.7	6.3	8.5	6.9	6.2	8.1
40 and over	.9	.7	-	.3	.5	.2	.6	-	.5	.3
Mother's Education, Percent										
Less than 12 years	7.8	11.6	7.8	9.6	12.8	12.6	10.7	4.3	12.0	19.5
Over 3 years college	18.1	13.0	12.1	15.2	11.7	9.2	13.0	13.8	22.6	20.5
Prenatal Care Began, Percent										
3rd Trimester or none	2.8	4.1	1.6	3.9	6.8	3.2	2.9	2.6	3.5	5.6
Prenatal Care Visits										
Median	11.5	11.5	11.5	10.4	10.6	9.4	11.5	11.6	11.7	11.5
Congenital Anomalies, Percent	1.1	.3	1.3	2.7	2.2	1.6	1.9	1.7	1.1	1.3
High Risk, Percent	15.4	16.1	15.4	16.7	14.5	15.1	19.4	17.2	18.4	22.2
Birth Injuries, Percent	1.3	1.0	3.3	2.1	1.9	2.5	1.7	6.0	1.5	2.0
Infant Deaths										
Total	22	1	8	6	4	7	8	-	131	78
White	21	1	8	6	4	7	8	-	94	44
Black	1	-	-	-	-	-	-	-	21	18
Indian	-	-	-	-	-	-	-	-	12	12
Neonatal Deaths										
Total	12	-	8	3	3	5	4	-	83	49
White	11	-	8	3	3	5	4	-	61	29
Black	1	-	-	-	-	-	-	-	12	10
Indian	-	-	-	-	-	-	-	-	6	6
First Day Deaths										
Total	8	-	5	2	2	4	4	-	52	31
White	7	-	5	2	2	4	4	-	42	22
Black	1	-	-	-	-	-	-	-	6	5
Indian	-	-	-	-	-	-	-	-	2	2
1-6 Day Deaths										
Total	2	-	2	1	-	1	-	-	22	14
White	2	-	2	1	-	1	-	-	13	6
Black	-	-	-	-	-	-	-	-	5	4
Indian	-	-	-	-	-	-	-	-	3	3
7-27 Day Deaths										
Total	2	-	1	-	1	-	-	-	9	4
White	2	-	1	-	1	-	-	-	6	1
Black	-	-	-	-	-	-	-	-	1	1
Indian	-	-	-	-	-	-	-	-	1	1
Fetal Deaths										
Total	22	3	5	2	2	4	4	2	97	39
White	20	3	5	2	2	4	4	2	77	23
Black	-	-	-	-	-	-	-	-	10	2
Indian	-	-	-	-	-	-	-	-	4	4
Perinatal Rate	9.6	10.3	29.0	14.9	13.7	16.2	11.6	17.2	12.8	14.8
Maternal Deaths	1	-	-	-	-	-	1	-	2	1

Table 21

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

	Houston	Hubbard	Isanti	Itasca	Jackson	Kanabec	Kand-iyohi	Kittson	Kooch-iching
Live Births	312	249	376	788	217	247	631	135	301
Fertility Rate	84.5	89.0	70.1	86.5	82.7	98.8	76.0	111.8	79.9
Birth Rate	17.0	17.7	15.9	18.3	15.9	20.3	17.2	20.2	17.1
Sex: Male	174	124	181	390	98	135	327	68	161
Female	138	125	195	398	119	112	304	67	140
Out-of-Wedlock, Percent	8.0	11.6	6.1	12.3	6.9	12.6	6.7	5.2	10.0
Race: White	312	244	365	694	214	243	623	131	269
Black	-	-	-	-	-	-	2	-	-
Indian	-	5	3	88	-	3	4	2	6
Live Birth Order									
Median	2.3	2.3	2.4	2.4	2.4	2.3	2.2	2.4	2.4
% 5th or over	3.8	6.4	2.9	3.8	5.1	4.9	4.1	3.7	1.7
Prematurity, Percent									
Less than 37 weeks	8.7	8.0	6.1	5.6	6.0	9.7	6.0	11.9	3.3
2,500 grams or less	4.2	5.2	4.3	4.7	6.5	3.6	4.6	8.9	6.3
Plurality:									
Single	304	243	366	776	211	241	627	127	293
Twin	8	6	10	12	6	6	4	8	8
Triplet	-	-	-	-	-	-	-	-	-
Mother's Age, Percent									
Under 18	3.5	3.2	2.7	4.3	.9	8.5	2.5	1.5	1.3
18-19	6.7	8.8	6.9	8.8	9.2	9.7	9.2	7.4	9.6
40 and over	.6	.8	.5	.6	.5	.4	.8	.7	1.0
Mother's Education, Percent									
Less than 12 years	7.7	11.2	12.2	15.5	8.8	20.2	8.2	6.7	13.6
Over 3 years college	14.1	11.6	14.9	9.5	8.8	10.1	12.8	15.6	6.0
Prenatal Care Began, Percent									
3rd Trimester or none	4.2	4.4	1.9	4.4	2.8	2.8	2.5	3.7	.7
Prenatal Care Visits									
Median	11.2	8.2	10.4	9.3	11.1	9.4	10.8	9.3	10.6
Congenital Anomalies, Percent	1.3	.4	1.1	1.5	.9	1.2	1.7	-	1.3
High Risk, Percent	14.7	13.7	14.9	17.4	17.5	17.8	16.6	14.1	15.9
Birth Injuries, Percent	-	.8	1.1	2.5	2.3	.8	2.4	1.5	2.3
Infant Deaths									
Total	4	4	7	9	3	3	9	2	1
White	4	4	5	9	3	3	8	2	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-		-	1	-	-
Neonatal Deaths									
Total	2	2	4	7	1	1	7	2	1
White	2	2	2	7	1	1	7	2	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
First Day Deaths									
Total	2	-	3	7	-	-	5	1	1
White	2	-	1	7	-	-	5	1	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	-	1	1	-	1	-	1	1	-
White	-	1	1	-	1	-	1	1	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	-	1	-	-	-	1	1	-	-
White	-	1	-	-	-	1	1	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	-	2	7	5	1	3	4	1	2
White	-	1	6	4	1	3	4	1	2
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Perinatal Rate	6.4	16.1	29.3	15.2	9.2	16.2	17.4	22.2	10.0
Maternal Deaths	-	-	-	-	-	-	-	-	-

Table 21
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

	Lac Qui Parle	Lake	Lake of the Woods	Le Sueur	Lincoln	Lyon	Mc-Leod	Mahnomen	Marshall
Live Births	146	213	69	384	139	464	510	111	194
Fertility Rate	78.9	78.7	97.9	81.4	96.5	82.1	81.8	112.5	78.6
Birth Rate	13.8	16.3	18.3	16.4	16.9	18.4	17.2	20.1	14.9
Sex: Male	77	106	28	196	77	239	267	60	105
Female	69	107	41	188	62	225	243	51	89
Out-of-Wedlock, Percent	6.8	6.6	11.6	7.0	3.6	7.1	7.1	25.2	6.2
Race: White	144	208	68	381	139	461	506	73	191
Black	-	-	-	-	-	2	-	-	-
Indian	1	2	-	3	-	1	2	38	2
Live Birth Order									
Median	2.3	2.3	2.3	2.3	2.7	2.3	2.3	2.8	2.5
% 5th or over	2.7	3.3	1.4	4.2	4.3	3.0	3.5	11.7	6.7
Prematurity, Percent									
Less than 37 weeks	5.5	4.7	8.7	6.3	9.4	3.9	8.4	9.0	9.8
2,500 grams or less	4.1	7.5	-	4.4	2.2	2.6	5.1	4.5	3.6
Plurality:									
Single	144	207	69	378	135	452	498	111	188
Twin	2	6	-	6	4	12	12	-	6
Triplet	-	-	-	-	-	-	-	-	-
Mother's Age, Percent									
Under 18	3.4	4.2	5.8	4.4	2.2	3.4	1.8	7.2	2.1
18-19	7.5	3.8	7.2	7.3	5.8	9.1	9.0	14.4	10.8
40 and over	.7	.5	2.9	.3	.7	.9	-	.9	3.1
Mother's Education, Percent									
Less than 12 years	10.3	8.5	18.8	9.6	2.2	10.8	7.5	21.6	10.3
Over 3 years college	13.7	12.2	10.1	10.4	12.2	12.3	9.4	9.0	14.9
Prenatal Care Began, Percent									
3rd Trimester or none	2.7	1.9	2.9	1.0	2.2	4.5	1.8	7.2	4.1
Prenatal Care Visits									
Median	9.7	10.5	7.7	10.9	9.9	11.5	11.2	8.8	9.3
Congenital Anomalies, Percent	2.7	1.4	-	1.3	2.9	1.3	1.0	2.7	-
High Risk, Percent	19.2	15.5	15.9	15.6	12.9	13.6	12.5	19.8	14.4
Birth Injuries, Percent	2.1	1.9	5.8	4.2	3.6	1.9	1.2	1.8	2.6
Infant Deaths									
Total	1	2	1	4	1	6	1	1	2
White	1	2	1	4	1	6	1	1	2
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Neonatal Deaths									
Total	1	1	-	3	1	2	1	1	2
White	1	1	-	3	1	2	1	1	2
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
First Day Deaths									
Total	-	1	-	1	1	-	-	1	2
White	-	1	-	1	1	-	-	1	2
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	-	-	-	2	-	1	1	-	-
White	-	-	-	2	-	1	1	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	1	-	-	-	-	1	-	-	-
White	1	-	-	-	-	1	-	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	2	3	-	1	-	3	3	2	-
White	2	3	-	1	-	3	3	2	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Perinatal Rate	20.5	18.8	-	10.4	7.2	10.8	7.8	27.0	10.3
Maternal Deaths	-	-	-	-	-	-	-	-	-

Table 21
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

	Martin	Meeker	Mille Lacs	Morrison	Mower	Murray	Nicollet	Nobles	Norman
Live Births	381	346	307	543	589	188	471	351	160
Fertility Rate	77.3	87.5	83.2	93.5	75.3	89.4	69.7	80.7	100.0
Birth Rate	15.4	16.8	16.7	18.5	14.6	16.3	17.5	16.1	17.1
Sex: Male	197	181	159	280	321	96	255	185	74
Female	184	165	148	263	268	92	216	166	86
Out-of-Wedlock, Percent	7.1	4.9	10.4	9.6	10.2	3.7	7.9	7.1	8.8
Race: White	378	345	292	539	585	186	467	344	159
Black	1	-	-	1	1	-	2	-	-
Indian	-	-	15	2	-	1	1	-	-
Live Birth Order									
Median	2.2	2.5	2.4	2.6	2.3	2.5	2.2	2.3	2.2
% 5th or over	2.1	6.6	3.3	8.5	5.1	4.8	3.4	3.4	2.5
Prematurity, Percent									
Less than 37 weeks	6.3	5.5	8.8	6.1	7.3	6.9	8.7	7.7	5.0
2,500 grams or less	5.0	2.3	5.2	5.3	3.9	1.6	5.7	4.6	4.4
Plurality:									
Single	371	336	301	539	583	186	457	345	160
Twin	10	10	6	4	6	2	14	6	-
Triplet	-	-	-	-	-	-	-	-	-
Mother's Age, Percent									
Under 18	2.9	4.0	5.5	2.6	1.9	2.1	2.8	3.4	3.1
18-19	7.1	8.4	10.1	8.8	10.2	9.0	8.1	6.8	9.4
40 and over	-	.9	-	.7	.7	1.6	1.5	.6	.6
Mother's Education, Percent									
Less than 12 years	7.1	9.5	15.6	10.1	11.0	6.9	7.6	9.1	9.4
Over 3 years college	11.8	12.7	9.4	8.7	8.8	10.6	18.7	12.3	8.8
Prenatal Care Began, Percent									
3rd Trimester or none	2.4	2.3	1.6	.9	4.1	3.2	1.1	1.7	3.8
Prenatal Care Visits									
Median	11.6	9.6	10.4	10.0	10.6	10.1	11.1	12.1	10.1
Congenital Anomalies, Percent	1.6	.9	1.3	1.3	1.7	.5	1.1	1.7	1.9
High Risk, Percent	12.1	15.0	16.0	13.4	15.6	6.9	14.6	12.5	15.0
Birth Injuries, Percent	1.0	2.3	2.3	2.8	2.5	2.1	2.5	1.4	3.1
Infant Deaths									
Total	6	2	3	4	3	2	9	2	2
White	6	2	2	4	3	2	9	2	2
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	1	-	-	-	-	-	-
Neonatal Deaths									
Total	4	1	-	4	1	1	7	2	1
White	4	1	-	4	1	1	7	2	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
First Day Deaths									
Total	1	-	-	2	-	-	3	1	-
White	1	-	-	2	-	-	3	1	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	1	-	-	1	1	-	3	-	-
White	1	-	-	1	1	-	3	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	2	1	-	1	-	1	1	1	1
White	2	1	-	1	-	1	1	1	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	5	3	3	2	1	-	4	3	1
White	5	3	1	1	1	-	3	3	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Perinatal Rate	23.6	11.6	9.8	11.0	3.4	5.3	23.4	14.2	12.5
Maternal Deaths	-	-	-	-	-	-	-	-	-

Table 21
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

	Olmsted	Otter Tail	Penn-ington	Pine	Pipe-stone	Polk	Pope	Ramsey	St. Paul
Live Births	1,674	787	266	372	185	623	187	7,626	4,802
Fertility Rate	68.1	79.6	78.7	97.6	84.9	86.2	91.5	[illegible]	73.3
Birth Rate	18.2	15.2	17.4	18.7	15.8	17.9	16.0	16.6	17.8
Sex: Male	856	408	126	191	90	301	79	4,025	2,516
Female	818	379	140	181	95	322	108	3,601	2,286
Out-of-Wedlock, Percent	8.4	7.2	11.3	15.1	4.9	10.1	9.1	16.1	20.1
Race: White	1,619	777	265	364	184	612	187	6,641	3,957
Black	13	2	1	-	-	1	-	399	359
Indian	3	4	-	7	1	10	-	92	79
Live Birth Order									
Median	2.2	2.3	2.2	2.3	2.6	2.4	2.3	2.1	2.1
% 5th or over	2.8	5.0	2.3	4.3	8.1	6.6	3.2	3.5	4.5
Prematurity, Percent									
Less than 37 weeks	7.2	6.2	7.1	8.1	5.4	6.3	5.9	7.7	8.1
2,500 grams or less	4.4	3.7	4.1	5.1	4.3	5.0	3.2	6.3	6.6
Plurality:									
Single	1,646	767	262	360	181	607	186	7,480	4,721
Twin	28	20	4	12	4	16	1	143	81
Triplet	-	-	-	-	-	-	-	3	-
Mother's Age, Percent									
Under 18	1.9	2.5	3.0	4.8	3.8	3.9	2.1	3.4	4.3
18-19	6.2	6.1	10.5	15.1	5.9	8.2	6.4	7.5	8.5
40 and over	.7	.9	.4	.5	.5	1.1	1.1	.7	.9
Mother's Education, Percent									
Less than 12 years	7.0	10.9	10.9	21.5	8.1	12.7	7.5	14.1	18.7
Over 3 years college	24.7	10.4	7.5	9.7	11.4	14.1	8.0	19.4	17.0
Prenatal Care Began, Percent									
3rd Trimester or none	4.6	3.7	3.0	5.9	4.3	3.2	3.7	4.4	5.5
Prenatal Care Visits									
Median	11.5	11.4	10.5	10.1	9.3	9.7	10.6	11.3	11.1
Congenital Anomalies, Percent	.8	1.5	1.1	2.2	1.1	.8	.5	1.3	1.3
High Risk, Percent	18.6	18.0	9.8	20.7	9.2	15.6	15.0	18.9	20.3
Birth Injuries, Percent	2.4	2.9	.4	3.0	.5	1.0	3.7	2.0	2.0
Infant Deaths									
Total	16	7	4	4	3	4	2	78	53
White	16	6	4	4	3	4	2	65	41
Black	-	-	-	-	-	-	-	7	7
Indian	-	1	-	-	-	-	-	1	-
Neonatal Deaths									
Total	11	2	3	2	2	3	-	54	39
White	11	2	3	2	2	3	-	47	33
Black	-	-	-	-	-	-	-	5	5
Indian	-	-	-	-	-	-	-	1	-
First Day Deaths									
Total	4	1	2	-	-	1	-	28	22
White	4	1	2	-	-	1	-	22	16
Black	-	-	-	-	-	-	-	5	5
Indian	-	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	3	-	-	-	2	2	-	14	8
White	3	-	-	-	2	2	-	13	8
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	1	-
7-27 Day Deaths									
Total	4	1	1	2	-	-	-	12	9
White	4	1	1	2	-	-	-	12	9
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	6	5	3	1	5	6	4	46	27
White	5	5	3	1	4	6	4	37	19
Black	-	-	-	-	-	-	-	6	6
Indian	-	-	-	-	-	-	-	-	-
Perinatal Rate	10.2	8.9	22.6	8.1	37.8	14.4	21.4	13.1	13.7
Maternal Deaths	-	-	-	-	-	-	-	-	-

Table 21
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

	Red Lake	Redwood	Renville	Rice	Rock	Roseau	St. Louis	Duluth	Scott
Live Births	110	286	353	778	190	240	3,421	1,574	821
Fertility Rate	108.1	78.7	93.8	68.1	93.3	96.9	69.0	71.6	76.9
Birth Rate	20.1	14.8	17.3	16.9	17.8	19.1	15.4	17.0	18.8
Sex: Male	53	137	201	371	95	132	1,757	793	430
Female	57	149	152	407	95	108	1,664	781	391
Out-of-Wedlock, Percent	6.4	7.3	7.4	8.1	4.7	6.7	12.7	15.4	6.9
Race: White	110	279	350	768	189	238	3,283	1,492	811
Black	-	-	-	2	-	-	21	20	1
Indian	-	4	2	-	-	2	86	46	6
Live Birth Order									
Median	2.6	2.5	2.3	2.4	2.5	2.4	2.2	2.2	2.4
% 5th or over	5.5	7.3	4.8	3.9	2.1	4.2	2.5	2.4	4.1
Prematurity, Percent									
Less than 37 weeks	9.1	6.6	9.1	7.2	3.7	5.0	7.4	6.5	4.6
2,500 grams or less	2.7	3.5	5.7	4.5	2.6	3.3	5.3	4.9	5.0
Plurality:									
Single	108	284	345	760	190	240	3,363	1,546	799
Twin	2	2	8	18	-	-	58	28	22
Triplet	-	-	-	-	-	-	-	-	-
Mother's Age, Percent									
Under 18	7.3	1.7	2.8	1.8	1.6	1.3	3.5	3.6	2.3
18-19	10.9	7.3	7.6	7.2	5.3	13.8	8.2	7.4	5.5
40 and over	.9	1.4	1.1	.6	-	.8	.3	.3	.6
Mother's Education, Percent									
Less than 12 years	13.6	7.7	8.8	10.9	6.3	12.5	11.5	11.2	9.5
Over 3 years college	12.7	11.2	8.5	15.4	14.2	11.3	14.4	17.3	12.8
Prenatal Care Began, Percent									
3rd Trimester or none	1.8	2.1	2.3	3.0	1.6	4.6	2.8	2.2	1.9
Prenatal Care Visits									
Median	9.8	10.6	10.7	11.2	12.0	8.9	10.6	10.2	11.3
Congenital Anomalies, Percent	.9	1.0	2.3	1.9	.5	3.8	.9	.9	1.7
High Risk, Percent	10.9	11.2	21.2	17.6	7.9	19.2	16.2	13.3	16.4
Birth Injuries, Percent	.9	1.4	3.4	1.8	.5	2.1	1.6	1.7	2.3
Infant Deaths									
Total	1	2	5	5	-	3	35	20	5
White	1	2	5	5	-	2	34	20	5
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	1	1	-	-
Neonatal Deaths									
Total	-	1	3	2	-	3	23	12	2
White	-	1	3	2	-	2	23	12	2
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	1	-	-	-
First Day Deaths									
Total	-	1	2	1	-	2	10	3	1
White	-	1	2	1	-	1	10	3	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	1	-	-	-
1-6 Day Deaths									
Total	-	-	1	1	-	1	9	7	1
White	-	-	1	1	-	1	9	7	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	-	-	-	-	-	-	4	2	-
White	-	-	-	-	-	-	4	2	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	-	2	3	2	-	2	25	12	5
White	-	1	2	2	-	2	25	12	5
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Perinatal Rate	-	10.5	17.0	5.1	-	20.8	14.0	15.2	8.5
Maternal Deaths	-	-	-	-	-	-	-	-	-

Table 21
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

	Sherburne	Sibley	Stearns	Steele	Stevens	Swift	Todd	Traverse	Wabasha
Live Births	608	256	1,979	529	169	217	465	83	331
Fertility Rate	86.2	87.6	72.9	76.9	67.6	92.2	97.3	87.4	84.5
Birth Rate	20.3	16.6	18.3	17.4	14.9	16.8	18.6	15.0	17.1
Sex: Male	307	128	1,045	267	98	107	240	45	173
Female	301	128	934	262	71	110	225	38	158
Out-of-Wedlock, Percent	8.2	5.1	8.7	4.9	5.3	5.1	9.2	7.2	6.9
Race: White	559	255	1,958	528	167	215	460	81	328
Black	1	-	7	-	-	-	-	-	1
Indian	1	1	2	-	1	-	3	2	-
Live Birth Order									
Median	2.4	2.5	2.3	2.3	2.4	2.4	2.6	2.6	2.3
% 5th or over	3.9	8.6	6.9	2.5	3.0	6.0	7.5	6.0	4.2
Prematurity, Percent									
Less than 37 weeks	5.8	5.5	7.5	6.0	3.0	6.5	8.0	9.6	3.0
2,500 grams or less	4.6	5.1	5.4	4.9	5.3	3.2	5.4	6.0	3.3
Plurality:									
Single	598	246	1,935	518	169	213	457	83	327
Twin	10	10	44	11	-	4	8	-	4
Triplet	-	-	-	-	-	-	-	-	-
Mother's Age, Percent									
Under 18	3.0	2.0	2.4	1.9	1.2	3.7	3.0	6.0	3.0
18-19	8.6	7.0	7.5	8.9	3.6	5.1	8.6	3.6	8.8
40 and over	.3	1.2	1.3	.2	-	.9	1.9	2.4	1.8
Mother's Education, Percent									
Less than 12 years	11.2	6.3	7.4	7.8	3.0	11.5	11.8	7.2	9.4
Over 3 years college	13.0	9.0	12.9	16.1	12.4	11.5	8.6	14.5	10.0
Prenatal Care Began, Percent									
3rd Trimester or none	1.3	3.1	1.8	2.5	.6	2.8	4.7	2.4	3.6
Prenatal Care Visits									
Median	10.8	10.3	10.3	10.7	10.9	10.6	9.9	11.1	10.6
Congenital Anomalies, Percent	1.8	1.6	1.1	1.7	-	.5	1.9	1.2	1.8
High Risk, Percent	11.3	14.8	14.0	15.5	11.2	16.1	19.6	15.7	19.6
Birth Injuries, Percent	.5	3.9	.7	2.5	1.8	4.1	3.7	2.4	1.5
Infant Deaths									
Total	8	4	22	8	5	1	10	-	2
White	7	4	21	8	5	1	10	-	2
Black	1	-	1	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Neonatal Deaths									
Total	3	3	13	5	3	-	7	-	1
White	3	3	12	5	3	-	7	-	1
Black	-	-	1	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
First Day Deaths									
Total	1	2	7	2	1	-	6	-	1
White	1	2	6	2	1	-	6	-	1
Black	-	-	1	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
1-6 Day Deaths									
Total	1	-	2	-	1	-	-	-	-
White	1	-	2	-	1	-	-	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
7-27 Day Deaths									
Total	1	1	4	3	1	-	1	-	-
White	1	1	4	3	1	-	1	-	-
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Fetal Deaths									
Total	-	-	8	3	1	1	6	1	1
White	-	-	8	3	1	1	6	1	1
Black	-	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-	-
Perinatal Rate	4.9	11.7	10.6	15.1	23.7	4.6	28.0	12.0	6.0
Maternal Deaths	-	-	-	-	-	-	-	-	-

Table 21
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

	Wadena	Waseca	Wash-ington	Watonwan	Wilkin	Winona	Wright	Yellow Medicine
Live Births	237	341	1,938	219	142	719	1,181	233
Fertility Rate	86.4	87.3	68.6	94.4	87.9	61.5	89.6	90.5
Birth Rate	16.7	18.5	17.1	17.7	16.8	15.5	20.1	17.1
Sex: Male	131	181	992	105	72	377	610	115
Female	106	160	946	114	70	342	571	118
Out-of-Wedlock, Percent	6.3	7.6	7.9	7.8	7.0	8.6	6.4	10.7
Race: White	234	340	1,896	219	141	711	1,110	229
Black	-	-	14	-	-	2	1	1
Indian	1	-	6	-	1	1	1	2
Live Birth Order								
Median	2.5	2.4	2.2	2.2	2.4	2.3	2.4	2.5
% 5th or over	7.2	2.6	2.4	3.2	4.9	4.2	6.1	5.2
Prematurity, Percent								
Less than 37 weeks	6.3	7.3	5.7	7.8	7.7	8.1	5.8	7.3
2,500 grams or less	3.4	4.1	4.5	6.4	2.8	4.9	4.1	3.4
Plurality:								
Single	233	335	1,904	215	140	712	1,167	233
Twin	4	6	34	4	2	7	14	-
Triplet	-	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	4.2	2.6	3.1	1.4	3.5	2.4	2.3	3.9
18-19	10.1	4.7	5.9	11.0	2.8	8.3	7.7	6.4
40 and over	1.3	.6	.3	.9	1.4	.7	.4	1.7
Mother's Education, Percent								
Less than 12 years	8.9	7.0	8.3	13.2	7.7	10.6	8.9	10.3
Over 3 years college	9.3	14.1	18.6	12.8	12.7	19.5	9.2	10.7
Prenatal Care Began, Percent								
3rd Trimester or none	3.4	1.2	1.5	1.8	2.1	2.1	1.7	3.9
Prenatal Care Visits								
Median	9.8	9.8	11.0	9.8	11.3	11.0	10.1	10.0
Congenital Anomalies, Percent	.4	1.2	1.3	2.3	.7	1.3	1.3	2.1
High Risk, Percent	15.6	10.6	14.8	14.2	13.4	14.9	13.0	15.5
Birth Injuries, Percent	3.0	1.2	2.3	2.3	2.8	1.9	2.3	3.4
Infant Deaths								
Total	2	2	21	1	1	8	12	1
White	2	2	20	1	1	8	12	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Neonatal Deaths								
Total	2	2	13	1	1	3	8	1
White	2	2	13	1	1	3	8	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	-	-	4	1	1	2	3	-
White	-	-	4	1	1	2	3	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	1	-	5	-	-	1	3	-
White	1	-	5	-	-	1	3	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	1	2	4	-	-	-	2	1
White	1	2	4	-	-	-	2	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	-	4	13	3	-	4	9	1
White	-	4	12	3	-	4	8	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	8.4	17.6	13.4	18.3	7.0	9.7	14.4	8.6
Maternal Deaths	-	-	-	-	-	-	-	-

* As of the 1980 Census
** Includes sex unknown

Table 22
LIVE BIRTH WEIGHT BY LIVE BIRTH ORDER AND SEX
MINNESOTA RESIDENTS, 1980

		Weight in Grams									
Live Birth Order	Total Births	1,000 or Less	1,001 to 1,500	1,501 to 2,000	2,001 to 2,500	2,501 to 3,000	3,001 to 3,500	3,501 to 4,000	4,001 to 4,500	4,501 and Over	Weight Not Stated
First	28,120	122	148	297	1,001	4,083	10,416	9,014	2,574	427	38
Second	21,596	91	87	177	593	2,602	7,441	7,301	2,712	560	32
Third	10,673	35	45	106	352	1,176	3,524	3,628	1,431	365	11
Fourth	3,617	7	19	44	121	408	1,088	1,235	527	160	8
Fifth	1,329	6	5	15	47	144	409	445	191	65	2
Sixth	549	1	4	8	20	58	174	175	71	36	2
Seventh	266	-	4	4	13	28	65	90	45	15	2
Eight or Over	305	2	3	6	9	44	81	93	47	18	2
Not Stated	1,388	7	7	7	23	71	203	186	63	14	807
TOTAL	67,843*	271	322	664*	2,179	8,614	23,401	22,167	7,661	1,660	904
Male	34,897	146	187	311	1,000	3,700	10,980	12,176	4,773	1,152	472
Female	32,944	125	135	351	1,179	4,914	12,421	9,991	2,888	508	432

* Includes sex unknown

Table 23
LIVE BIRTHS BY AGE OF MOTHER AND LIVE BIRTH ORDER
MINNESOTA RESIDENTS, 1980

		Age of Mother								
Live Birth Order	Total Births	Under 15 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45 & Over Years	Age Not Stated
First	28,120	44	5,712	11,746	8,227	2,088	275	24	-	4
Second	21,596	-	1,016	7,622	8,795	3,644	478	40	-	1
Third	10,673	-	100	2,239	4,716	3,024	543	48	3	-
Fourth	3,617	-	6	373	1,375	1,386	418	56	3	-
Fifth	1,329	-	-	55	338	567	299	64	6	-
Sixth	549	-	-	6	99	204	181	57	1	1
Seventh	266	-	-	1	26	104	92	41	2	-
Eight or Over	305	-	-	3	16	55	145	72	14	-
Not Stated	1,388	1	154	501	443	228	54	6	-	1
TOTAL	67,843	45	6,988	22,546	24,035	11,300	2,485	408	29	7
Percent	100.0	0.1	10.3	33.2	35.4	16.7	3.7	0.6	0.0	0.0

Table 24
PRENATAL CARE AND RACE BY AGE OF MOTHER AND BY LEGITIMACY STATUS
MINNESOTA RESIDENTS, 1980

			Age of Mother					
	Total	Percent	Under 15	15-19	20-29	30-39	40 and Over	Unknown
Legitimate Live Births	60,103*	-	3	3,634	42,746	13,295	421	4
Prenatal Care Started								
1st Trimester	45,951	76.5	-	2,203	33,204	10,299	242	3
2nd Trimester	9,317	15.5	1	1,027	6,214	1,951	124	-
3rd Trimester	1,170	1.9	-	175	737	233	24	1
No Care	141	0.2	-	10	90	38	3	-
Unknown	3,524	5.9	2	219	2,501	774	28	-
Race								
White	56,967	94.8	2	3,406	40,623	12,553	379	4
Black	692	1.2	-	40	465	182	5	-
Indian	555	0.9	-	59	387	105	4	-
Out-of-Wedlock Live Births	7,740*†	-	42	3,354	3,835	490	16	3
Prenatal Care Started								
1st Trimester	3,856	49.8	16	1,492	2,061	278	7	2
2nd Trimester	2,504	32.4	15	1,233	1,126	126	4	-
3rd Trimester	687	8.9	8	314	322	42	1	-
No Care	143	1.8	-	65	67	9	2	-
Unknown	550	7.1	3	250	259	35	2	1
Race								
White	6,100	78.8	23	2,719	2,981	363	11	3
Black	822	10.6	10	306	444	60	2	-
Indian	668	8.6	8	258	348	53	1	-
Legitimate Fetal Deaths	385*	-	-	25	244	101	8	7
Race								
White	348	90.4	-	22	220	93	8	5
Black	9	2.3	-	-	8	1	-	-
Indian	-	-	-	-	-	-	-	-
Out-of-Wedlock Fetal Deaths	64*†	-	1	26	27	7	1	2
Race								
White	47	73.4	-	20	21	5	1	-
Black	7	10.9	-	2	3	1	-	1
Indian	5	7.8	1	2	-	1	-	1

*Includes deliveries of other and unknown races

†Includes unknown legitimacy status

Infant Mortality and Fetal Deaths

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Table 25
INFANT, NEONATAL AND POSTNEONATAL DEATHS BY CAUSE
MINNESOTA RESIDENTS, 1980

Causes of Death	Infant Deaths	Neonatal				Post-neonatal
		Total	Under 1 Day	1-6 Days	7-27 Days	
All Causes - Total	679	421	232	110	79	258
Certain conditions originating in the perinatal period	294	272	173	68	31	22
Respiratory distress syndrome	82	75	30	30	15	7
Short gestation and low birth weight	46	45	43	2	-	1
Selected respiratory conditions of fetus and newborn	45	38	29	7	2	7
Maternal conditions	39	39	38	1	-	-
Fetal and neonatal hemorrhage	17	15	4	10	1	2
Intrauterine hypoxia and birth asphyxia	12	11	6	4	1	1
Birth trauma	11	10	5	2	3	1
Congenital anomalies	165	119	52	35	32	46
Of heart	46	25	3	11	11	21
Chromosomal anomalies	18	17	7	4	6	1
Of urinary system	17	15	9	4	2	2
Of respiratory system	12	10	7	2	1	2
Anencephalus and similar anomalies	10	9	8	1	-	1
Symptoms, signs, and ill-defined conditions	118	9	1	2	6	109
Sudden infant death syndrome	112	7	1	-	6	105
Diseases of the respiratory system	29	7	3	2	2	22
Pneumonia-Influenza	15	6	3	2	1	9
Violent deaths	25	3	-	-	3	22
Accidental deaths	19	2	-	-	2	17
Mechanical suffocation	8	1	-	-	1	7
Motor vehicle	5	-	-	-	-	5
Homicide	4	-	-	-	-	4
Undetermined whether accident or homicide	2	1	-	-	1	1
Diseases of the nervous system and sense organs	12	1	-	-	1	11
Infective and parasitic diseases	10	2	-	1	1	8
Septicemia	3	-	-	-	-	3
Diseases of circulatory system	10	2	1	-	1	8
Endocrine, nutritional, and metabolic diseases	7	4	1	1	2	3
Diseases of digestive system	4	2	1	1	-	2
Neoplasms	2	-	-	-	-	2
Malignant neoplasms	2	-	-	-	-	2
Genitourinary	2	-	-	-	-	2
Diseases of blood and blood-forming organs	1	-	-	-	-	1

Table 26
FETAL DEATHS OF 20 WEEKS AND OVER BY CAUSE AND WEIGHT OF FETUS
MINNESOTA RESIDENTS, 1980

		Weight in Grams									
Cause of Death	Total Fetal Deaths	1,000 or Less	1,001 to 1,500	1,501 to 2,000	2,001 to 2,500	2,501 to 3,000	3,001 to 3,500	3,501 to 4,000	4,001 to 4,500	4,501 and Over	Weight Unknown
Total All Causes	449	134	22	43	33	37	47	25	6	4	98
Complications of Placenta, Cord, or Membranes	159	36	4	15	14	14	20	10	3	2	41
Congenital Anomalies	46	15	3	2	5	2	7	2	-	1	9
Anencephalus and Similar Anomalies	(15)	(5)	(1)	(-)	(3)	(-)	(2)	(1)	(-)	(-)	(3)
Hydrocephalus	(2)	(-)	(-)	(-)	(-)	(-)	(1)	(-)	(-)	(-)	(1)
Maternal Conditions Related to Pregnancy	35	23	2	-	-	1	2	-	-	-	7
Hypoxia and Birth Asphyxia	24	3	2	3	4	2	1	5	-	-	4
Maternal Conditions Unrelated to Pregnancy	21	6	3	6	1	2	1	-	-	-	2
Other Diseases or Conditions of Fetus	13	2	2	2	1	1	-	1	-	-	4
Short Gestation and Low Birthweight	10	9	-	-	-	-	-	-	-	-	1
Complications of Labor and Delivery	5	2	-	-	-	-	-	1	1	-	1
Malpresentation of Fetus	(1)	(-)	(-)	(-)	(-)	(-)	(-)	(1)	(-)	(-)	(-)
Syndrome of "Infant of a Diabetic Mother"	3	-	-	1	-	1	-	-	-	1	-
Slow Fetal Growth and Fetal Malnutrition	13	8	2	1	-	-	-	-	-	-	2
Hemolytic Disease of Fetus	3	2	-	-	1	-	-	-	-	-	-
Ill-defined Conditions Originating in Perinatal Period	117	28	4	13	7	14	16	6	2	-	27

General Mortality

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Every day in 1980, residents of Minnesota experienced an average of:

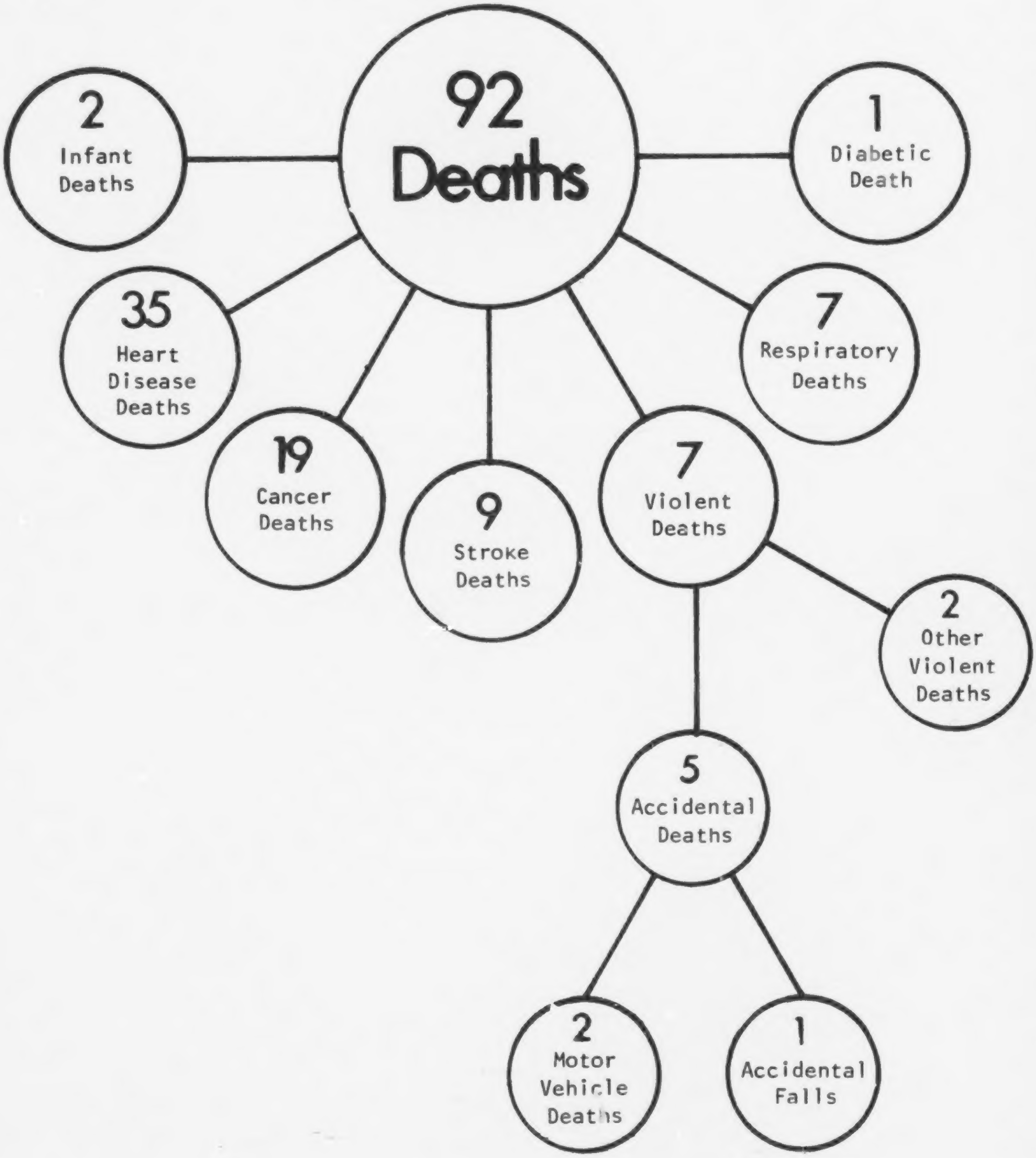
92 Deaths
2 Infant Deaths
1 Diabetic Death
35 Heart Disease Deaths
7 Respiratory Deaths
19 Cancer Deaths
9 Stroke Deaths
7 Violent Deaths
2 Other Violent Deaths
5 Accidental Deaths
2 Motor Vehicle Deaths
1 Accidental Falls

Table 27
DEATHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE: RESIDENT DEATHS DISTRIBUTED ACCORDING TO PLACE OF DEATH
MINNESOTA, 1980

	Deaths Occurring in County				Resident Deaths		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
State Total	34,015	25,982	6,093	1,940	6,093	1,340	33,415
Aitkin	125	98	25	2	55	4	157
Anoka	667	420	237	10	276	16	712
Becker	258	208	39	11	34	50	292
Beltrami	266	215	45	6	37	24	276
Benton	119	84	34	1	124	-	208
Big Stone	113	83	20	10	14	11	108
Blue Earth	481	346	130	5	62	6	414
Brown	317	230	85	2	46	4	280
Carlton	260	203	55	2	65	6	274
Carver	220	135	84	1	104	2	241
Cass	134	98	27	9	147	12	257
Chippewa	130	113	17	-	49	8	170
Chisago	194	133	57	4	52	22	207
Clay	250	192	30	28	17	123	332
Clearwater	89	76	13	-	22	9	107
Cook	38	29	5	4	6	2	37
Cottonwood	164	151	12	1	27	1	179
Crow Wing	465	351	108	6	79	10	440
Dakota	587	471	99	17	380	18	869
Dodge	56	51	4	1	75	1	127
Douglas	303	236	60	7	38	3	277
Faribault	209	180	8	21	61	11	252
Fillmore	193	158	23	12	69	33	260
Freeborn	350	293	37	20	37	15	345
Goodhue	400	306	52	42	86	6	398
Grant	76	63	12	1	24	8	95
Hennepin	8,701	6,762	1,527	412	516	161	7,439
Minneapolis	4,757	2,971	1,537	249	1,175	72	4,218
Houston	147	115	24	8	7	55	177
Hubbard	161	102	52	7	28	18	148
Isanti	193	145	47	1	44	5	194
Itasca	348	294	46	8	77	10	381
Jackson	92	86	5	1	26	2	114
Kanabec	106	81	24	1	34	2	117
Kandiyohi	380	260	114	6	53	12	325
Kittson	79	65	11	3	11	12	88
Koochiching	140	124	15	1	27	4	155
Lac Qui Parle	123	113	5	5	29	2	144
Lake	88	77	9	2	20	4	101
Lake of the Woods	52	39	10	3	2	5	46
Le Sueur	127	101	23	3	132	5	238
Lincoln	132	97	15	20	16	5	118
Lyon	207	165	39	3	45	11	221
McLeod	227	173	53	1	51	-	224
Mahnomen	49	44	3	2	20	8	72

Table 27
DEATHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE: RESIDENT DEATHS DISTRIBUTED ACCORDING TO PLACE OF DEATH, MINNESOTA, 1980 (CONT.)

County	Deaths Occurring in County				Resident Deaths		
					Outside County		
	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
Marshall	60	53	5	2	43	23	119
Martin	253	218	13	22	38	7	263
Meeker	211	155	56	-	54	6	215
Mille Lacs	192	143	47	2	53	3	199
Morrison	245	220	24	1	70	7	297
Mower	320	296	21	3	60	18	374
Murray	61	51	10	-	21	12	84
Nicollet	111	77	33	1	89	2	168
Nobles	197	152	29	16	23	18	193
Norman	96	81	12	3	30	23	134
Olmsted	1,534	498	488	548	47	15	560
Otter Tail	507	451	44	12	79	55	585
Pennington	180	124	56	-	9	13	146
Pine	119	99	20	-	104	6	209
Pipestone	124	109	10	5	13	17	139
Polk	326	263	38	25	34	67	364
Pope	130	110	19	1	40	3	153
Ramsey	4,212	3,359	714	139	466	69	3,894
St. Paul	3,705	2,472	1,102	131	342	57	2,871
Red Lake	34	29	5	-	18	3	50
Redwood	178	147	30	1	83	2	232
Renville	154	140	13	1	104	1	245
Rice	397	313	76	8	59	7	379
Rock	75	62	4	9	2	12	76
Roseau	123	108	4	11	14	12	134
St. Louis	2,480	2,099	168	213	122	40	2,261
Duluth	1,418	982	235	201	106	30	1,118
Scott	286	172	112	2	53	1	226
Sherburne	154	106	47	1	97	2	205
Sibley	89	76	13	-	61	1	138
Stearns	798	504	282	12	126	6	636
Steele	235	196	35	4	63	2	261
Stevens	106	83	23	-	19	9	111
Swift	88	80	8	-	39	5	124
Todd	141	130	10	1	103	6	239
Traverse	56	40	4	12	20	14	74
Wabasha	194	149	22	23	53	3	205
Wadena	189	120	69	-	28	12	160
Waseca	120	102	13	5	58	2	162
Washington	339	278	49	12	257	30	565
Watonwan	107	97	10	-	37	2	136
Wilkin	150	49	5	96	7	16	72
Winona	394	336	24	34	63	46	445
Wright	279	231	47	1	166	7	404
Yellow Medicine	155	110	41	4	41	9	160
Unknown	-	-	-	-	3	-	3

Table 28
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1980

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total		33,415*	679	126	80	93	319	452	339	261	307	432	634	1,056	1,632	2,246	3,234	3,897	4,542	5,008	8,071
	Male		18,138*	393	74	37	67	235	344	258	194	220	251	377	706	1,063	1,453	2,082	2,346	2,490	2,482	3,063
	Female		15,277*	286	52	43	26	84	108	81	67	87	181	257	350	589	793	1,152	1,551	2,052	2,526	5,008
000-139	I. INFECTIOUS AND PARASITIC DISEASES	T	226	10	7	1	-	1	4	3	5	5	3	5	9	13	16	17	15	22	33	57
		M	111	7	4	1	-	1	-	3	4	1	2	2	5	9	7	8	8	10	14	25
		F	115	3	3	-	-	-	4	-	1	4	1	3	4	4	9	9	7	12	19	32
001-009	Intestinal Infectious Diseases	T	13	2	1	-	-	-	-	1	1	1	-	-	-	-	-	1	2	-	1	3
		M	9	2	1	-	-	-	-	1	1	-	-	-	-	-	-	1	1	-	-	2
		F	4	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	1	1
004	Shigellosis	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
010-018, 137	Tuberculosis (including late effects of)	T	16	-	-	-	-	-	-	-	-	-	-	-	2	1	1	2	2	3	1	4
		M	11	-	-	-	-	-	-	-	-	-	-	-	2	1	-	2	1	2	1	2
		F	5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	2
010-012	Respiratory Tuberculosis (Active)	T	15	-	-	-	-	-	-	-	-	-	-	-	2	1	1	1	2	3	1	4
		M	10	-	-	-	-	-	-	-	-	-	-	-	2	1	-	1	1	2	1	2
		F	5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	2
013-018	Other Tuberculosis (Active)	T	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
		M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
137	Late Effects of Tuberculosis	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
032	Diphtheria	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
033	Whooping Cough	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
034-035	Streptococcal Sore Throat, Scarlatina, and Erysipelas	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
036	Meningococcal Infection	T	3	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
		M	2	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
		F	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
037	Tetanus	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
038	Septicemia	T	109	3	-	-	-	-	2	1	-	1	1	2	1	5	9	6	7	15	21	35
		M	53	2	-	-	-	-	-	1	-	-	1	1	-	4	5	4	3	7	8	17
		F	56	1	-	-	-	-	2	-	-	1	-	1	1	1	4	2	4	8	13	18
045	Acute Poliomyelitis	T	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
055	Measles	T	2	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	2	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
062-064	Viral Encephalitis (Acute)	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
070	Viral Hepatitis	T	8	-	1	-	-	-	-	1	-	1	1	2	-	-	-	2	-	-	-	-
		M	5	-	1	-	-	-	-	1	-	-	1	1	-	-	-	1	-	-	-	-
		F	3	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-
090-097	Syphilis	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual	Other Infectious and Parasitic Diseases	T	74	4	3	1	-	1	1	-	3	2	1	1	6	6	6	6	4	4	10	15
		M	31	3	1	1	-	1	-	-	3	1	-	-	3	3	2	-	3	1	5	4
		F	43	1	2	-	-	-	1	-	-	1	1	1	3	3	4	6	1	3	5	11
140-239	II. NEOPLASMS	T	7,038*	2	10	18	16	15	37	41	27	58	115	234	364	569	731	1,021	1,037	1,000	886	856
		M	3,838	2	7	7	11	11	25	27	17	25	46	102	185	310	423	632	587	541	481	399
		F	3,200*	-	3	11	5	4	12	14	10	33	69	132	179	259	308	389	450	459	405	457
140-208	Malignant Neoplasms	T	6,964*	2	9	18	15	15	34	39	26	57	115	233	360	563	726	1,013	1,029	991	871	847
		M	3,795	2	6	7	10	11	22	25	17	25	46	101	183	307	421	627	583	535	473	394
		F	3,169*	-	3	11	5	4	12	14	9	32	69	132	177	256	305	386	446	456	398	453
140-149	Of Lip, Oral Cavity and Pharynx	T	103	-	-	-	1	-	-	-	-	-	1	3	10	13	18	13	12	13	11	8
		M	74	-	-	-	1	-	-	-	-	-	1	1	8	12	13	10	9	11	6	2
		F	29	-	-	-	-	-	-	-	-	-	-	2	2	1	5	3	3	2	5	6
150-159	Of Digestive Organs and Peritoneum	T	1,905	-	1	1	-	1	2	1	6	5	24	48	72	125	203	273	287	296	280	280
		M	994	-	1	-	-	1	1	1	4	2	12	22	42	75	127	162	157	136	154	97
		F	911	-	-	1	-	-	1	-	2	3	12	26	30	50	76	111	130	160	126	183
150	Of Esophagus	T	122	-	-	-	-	-	-	-	-	-	-	3	8	10	21	21	24	10	13	12
		M	93	-	-	-	-	-	-	-	-	-	-	2	8	9	19	17	15	6	11	6
		F	29	-	-	-	-	-	-	-	-	-	-	1	-	1	2	4	9	4	2	6
151	Of Stomach	T	268	-	-	-	-	-	-	-	2	-	2	9	7	12	24	38	43	47	34	50
		M	156	-	-	-	-	-	-	-	2	-	-	5	6	8	18	31	26	26	21	13
		F	112	-	-	-	-	-	-	-	-	-	2	4	1	4	6	7	17	21	13	37
152	Of Small Intestine, Including Duodenum	T	26	-	-	-	-	-	-	-	1	-	-	2	5	3	3	1	2	2	4	3
		M	8	-	-	-	-	-	-	-	-	-	-	-	3	2	2	-	1	-	-	-
		F	18	-	-	-	-	-	-	-	1	-	-	2	2	1	1	1	1	2	4	3

Table 28
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1980 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
153	Of Colon	T	750	-	-	-	-	-	-	1	1	3	14	22	29	47	77	100	102	123	120	111
		M	371	-	-	-	-	-	-	1	1	1	7	9	12	24	47	53	58	52	63	43
		F	379	-	-	-	-	-	-	-	-	2	7	13	17	23	30	47	44	71	57	68
154	Of Rectum,	T	145	-	-	-	-	-	-	-	-	1	1	6	3	13	10	19	18	29	17	28
	Rectosigmoid	M	72	-	-	-	-	-	-	-	-	1	1	4	1	7	6	10	9	14	8	11
	Junction and Anus	F	73	-	-	-	-	-	-	-	-	-	-	2	2	6	4	9	9	15	9	17
160-	Of Respiratory	T	1,501	-	-	-	-	-	1	3	2	8	23	47	110	168	218	279	238	202	114	88
165	System	M	1,101	-	-	-	-	-	1	2	1	4	12	33	73	119	166	222	178	148	89	53
		F	400	-	-	-	-	-	-	1	1	4	11	14	37	49	52	57	60	54	25	35
162	Of Trachea,	T	1,427	-	-	-	-	-	1	2	2	7	22	45	103	158	210	265	226	195	109	82
	Bronchus and	M	1,046	-	-	-	-	-	1	1	1	3	12	31	69	110	160	209	169	145	84	51
	Lung	F	381	-	-	-	-	-	-	1	1	4	10	14	34	48	50	56	57	50	25	31
170-	Of Bone, Connective	T	804	-	-	2	2	3	6	6	8	20	31	58	54	82	78	100	98	81	77	98
175	Tissue, Skin and	M	106	-	-	-	1	2	4	1	4	6	3	6	8	7	4	17	6	10	9	18
	Breast	F	698	-	-	2	1	1	2	5	4	14	28	52	46	75	74	83	92	71	68	80
172-	Of Skin	T	92	-	-	-	-	-	2	-	3	6	5	8	5	5	7	10	7	9	9	16
173		M	61	-	-	-	-	-	1	-	2	4	3	4	4	2	4	7	3	8	6	13
		F	31	-	-	-	-	-	1	-	1	2	2	4	1	3	3	3	4	1	3	3
174-	Of Breast	T	630	-	-	-	-	-	1	4	1	12	24	45	45	72	65	75	85	68	58	75
175		M	7	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	1	-	2
		F	623	-	-	-	-	-	1	4	1	12	24	45	45	70	65	73	85	67	58	73
179-	Of Genitourinary	T	1,207	-	-	1	-	1	4	7	1	8	8	28	44	61	76	169	180	194	215	210
189	Organs	M	709	-	-	-	-	1	2	4	1	2	2	11	10	20	26	102	108	128	138	154
		F	498	-	-	1	-	-	2	3	-	6	6	17	34	41	50	67	72	66	77	56
179-	Of Uterus,	T	159	-	-	-	-	-	1	2	-	4	3	8	11	11	15	23	24	20	18	19
182	Cervix and	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Placenta	F	159	-	-	-	-	-	1	2	-	4	3	8	11	11	15	23	24	20	18	19
185	Of Prostate	T	470	-	-	-	-	-	-	-	-	-	1	1	2	7	15	69	63	86	104	122
		M	470	-	-	-	-	-	-	-	-	-	1	1	2	7	15	69	63	86	104	122
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
190-	Of Other and	T	614	1	2	8	3	1	8	9	2	6	14	22	31	58	71	83	88	80	63	64
199	Unspecified Sites	M	308	1	-	2	1	1	4	7	2	3	6	10	19	35	44	48	42	36	23	24
		F	306	-	2	6	2	-	4	2	-	3	8	12	12	23	27	35	46	44	40	40
191-	Of Brain and Other	T	205	-	1	5	3	1	4	7	2	2	11	13	14	22	28	26	28	26	8	4
192	Parts of Central	M	115	-	-	2	1	1	2	6	2	-	5	7	12	17	16	14	12	12	4	2
	Nervous System	F	90	-	1	3	2	-	2	1	-	2	6	6	2	5	12	12	16	14	4	2
200-	Of Lymphatic and	T	830*	1	6	6	9	9	13	13	7	10	14	27	39	56	62	96	126	125	111	99
208	Hematopoietic Tissue	M	503	1	5	5	7	6	10	10	5	8	10	18	23	39	41	66	83	66	54	46
		F	327*	-	1	1	2	3	3	3	2	2	4	9	16	17	21	30	43	59	57	53
201	Hodgkin's Disease	T	43	-	-	-	1	1	4	4	1	3	-	2	3	2	3	5	5	3	3	3
		M	29	-	-	-	1	-	3	3	1	2	-	2	3	2	1	4	5	1	-	1
		F	14	-	-	-	-	1	1	1	-	1	-	-	-	-	2	1	-	2	3	2
204-	Leukemia	T	356*	1	4	6	7	6	5	9	2	5	8	14	10	22	25	33	44	51	55	48
208		M	230	1	3	5	5	4	3	7	1	4	5	11	5	13	16	23	34	35	28	27
		F	126*	-	1	1	2	2	2	2	1	1	3	3	5	9	9	10	10	16	27	21
210-	Benign Neoplasms	T	74	-	1	-	1	-	3	2	1	1	-	1	4	6	5	8	8	9	15	9
239	and Neoplasms of	M	43	-	1	-	1	-	3	2	-	-	-	1	2	3	2	5	4	6	8	5
	Uncertain Behavior	F	31	-	-	-	-	-	-	-	1	1	-	-	2	3	3	3	4	3	7	4
240-	III. ENDOCRINE,	T	657	7	1	1	1	3	2	7	7	7	7	9	26	35	51	51	92	97	98	155
279	NUTRITIONAL AND	M	295	3	1	-	1	2	1	2	4	5	5	7	19	21	27	26	40	35	38	58
	METABOLIC DISEASES	F	362	4	-	1	-	1	1	5	3	2	2	2	7	14	24	25	52	62	60	97
250	Diabetes Mellitus	T	497	-	-	1	1	1	1	4	4	5	5	7	20	28	43	41	73	86	72	105
		M	221	-	-	-	1	1	1	1	3	3	4	5	15	15	24	21	32	27	29	39
		F	276	-	-	1	-	-	-	3	1	2	1	2	5	13	19	20	41	59	43	66
260-	Nutritional	T	33	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	6	1	6	19
269	Deficiencies	M	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	10
		F	19	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	4	-	5	9
Re-	(240-249,	T	127	7	1	-	-	2	1	3	3	2	2	2	6	6	8	10	13	10	20	31
sid-	251-259,	M	60	3	1	-	-	1	-	1	1	2	1	2	4	6	3	5	6	7	8	9
ual	270-279)	F	67	4	-	-	-	1	1	2	2	-	1	-	2	-	5	5	7	3	12	22
280-	IV. DISEASES OF THE	T	106	1	-	2	-	-	1	1	-	1	1	2	3	1	8	8	19	19	12	27
289	BLOOD AND BLOOD-	M	47	1	-	1	-	-	-	-	-	1	1	-	2	1	6	4	7	8	4	11
	FORMING ORGANS	F	59	-	-	1	-	-	1	1	-	-	-	2	1	-	2	4	12	11	8	16
280-	Anemias	T	48	1	-	1	-	-	-	1	-	-	-	-	1	-	2	3	4	9	6	20
285		M	19	1	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1	3	2	8
		F	29	-	-	1	-	-	-	1	-	-	-	-	1	-	-	1	3	6	4	12
Re-	(286-289)	T	58	-	-	1	-	-	1	-	-	1	1	2	2	1	6	5	15	10	6	7
sid-		M	28	-	-	1	-	-	-	-	-	1	1	-	2	1	4	2	6	5	2	3
ual		F	30	-	-	-	-	-	1	-	-	-	-	2	-	-	2	3	9	5	4	4
290-	V. MENTAL DISORDERS	T	308	-	2	-	-	1	2	-	2	3	6	6	8	12	12	11	25	30	57	131
319		M	147	-	2	-	-	1	1	-	-	3	5	5	4	9	8	9	12	16	30	42
		F	161	-	-	-	-	-	1	-	2	-	1	1	4	3	4	2	13	14	27	89
320-	VI. DISEASES OF THE	T	411	12	8	3	3	12	8	5	3	5	10	9	11	23	23	44	60	59	60	53
389	NERVOUS SYSTEM AND	M	228	7	3	1	1	9	7	2	2	4	6	5	7	13	12	23	39	34	33	20
	SENSE ORGANS	F	183	5	5	2	2	3	1	3	1	1	4	4	4	10	11	21	21	25	27	33
320-	Meningitis (Excludes	T	15	3	3	1	-	-	-	1	-	-	-	-	1	1	-	2	2	-	-	1
322	Infective Meningitis)	M	8	2	2	-	-	-	-	-	-	-	-	-	-	1	-	2	1	-	-	-
		F	7	1	1	1	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	1
332	Parkinson's Disease	T	122	-	-	-	-	-	-	-	-	-	-	-	-	1	2	13	23	33	26	24
		M	76	-	-	-	-	-	-	-	-	-	-	-	-	1	2	8	20	21	16	8
		F	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3	12	10	16

Table 28
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1980 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
340	Multiple Sclerosis	T	20	-	-	-	-	-	-	-	-	1	2	2	2	2	3	4	2	1	-	1
		M	6	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	1	1	-	-
		F	14	-	-	-	-	-	-	-	-	1	2	1	1	1	2	4	1	-	-	1
Residual	(323-331, 333-339, 341-389)	T	254	9	5	2	3	12	8	4	3	4	8	7	8	19	18	25	33	25	34	27
		M	138	5	1	1	1	9	7	2	2	4	6	4	6	10	9	13	17	12	17	12
		F	116	4	4	1	2	3	1	2	1	-	2	3	2	9	9	12	16	13	17	15
390-459	VII. DISEASES OF THE CIRCULATORY SYSTEM	T	17,045	10	6	1	7	13	17	30	33	74	119	213	406	727	1,015	1,563	2,040	2,576	2,983	5,212
		M	8,952	2	2	1	4	9	14	17	25	61	92	151	323	541	723	1,047	1,262	1,410	1,425	1,843
		F	8,093	8	4	-	3	4	3	13	8	13	27	62	83	186	292	516	778	1,166	1,558	3,369
390-398 402, 404-429	Diseases of the Heart	T	12,596	9	6	1	6	7	11	23	25	64	96	177	345	633	869	1,262	1,594	1,902	2,104	3,462
		M	6,983	2	2	1	4	6	9	14	19	54	80	133	290	487	631	870	1,022	1,073	1,030	1,256
		F	5,613	7	4	-	2	1	2	9	6	10	16	44	55	146	238	392	572	829	1,074	2,206
390-398	Acute Rheumatic Fever and Chronic Rheumatic Heart Disease	T	129	-	1	-	1	-	-	2	-	-	4	6	6	9	14	11	15	29	13	18
		M	52	-	-	-	1	-	-	-	-	-	2	3	3	5	5	5	8	10	4	6
		F	77	-	1	-	-	-	-	2	-	-	2	3	3	4	9	6	7	19	9	12
402, 404	Hypertensive Heart With or Without Renal Disease	T	229	-	-	-	-	-	-	-	-	-	-	3	4	5	7	16	28	33	49	84
		M	88	-	-	-	-	-	-	-	-	-	-	1	3	2	6	9	16	14	17	20
		F	141	-	-	-	-	-	-	-	-	-	-	2	1	3	1	7	12	19	32	64
410-414	Ischemic Heart Disease	T	9,681	-	-	-	-	-	-	12	13	47	84	136	274	517	719	1,023	1,315	1,482	1,595	2,464
		M	5,540	-	-	-	-	-	-	8	9	41	74	107	236	418	528	705	865	842	790	917
		F	4,141	-	-	-	-	-	-	4	4	6	10	29	38	99	191	318	450	640	805	1,547
410	Acute Myocardial Infarction	T	5,023	-	-	-	-	-	-	4	8	25	57	80	161	315	435	656	774	830	791	887
		M	3,039	-	-	-	-	-	-	2	6	24	49	62	137	252	317	446	508	477	400	359
		F	1,984	-	-	-	-	-	-	2	2	1	8	18	24	63	118	210	266	353	391	528
411	Other Acute and Subacute Forms	T	40	-	-	-	-	-	-	-	-	2	-	1	3	2	4	4	6	4	5	9
		M	25	-	-	-	-	-	-	-	-	1	-	1	3	1	4	4	5	4	-	2
		F	15	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	-	5	7
412	Old Myocardial Infarction	T	18	-	-	-	-	-	-	-	-	-	1	-	1	1	1	1	4	2	3	4
		M	11	-	-	-	-	-	-	-	-	-	1	-	1	1	1	1	3	2	1	-
		F	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	4
413	Angina Pectoris	T	7	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	3	-	1
		M	5	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2	-	1
		F	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-
414	Chronic Ischemic Heart Disease	T	4,593	-	-	-	-	-	-	8	5	20	26	55	109	198	279	362	529	643	796	1,563
		M	2,460	-	-	-	-	-	-	6	3	16	24	44	95	163	206	254	348	357	389	555
		F	2,133	-	-	-	-	-	-	2	2	4	2	11	14	35	73	108	181	286	407	1,008
415-416	Pulmonary Heart Disease	T	210	2	1	-	-	-	-	1	3	4	-	6	9	14	8	23	25	36	34	44
		M	114	1	-	-	-	-	-	1	2	3	-	3	6	5	5	15	15	24	19	15
		F	96	1	1	-	-	-	-	-	1	1	-	3	3	9	3	8	10	12	15	29
420-429	Other Forms of Heart Disease	T	2,346	7	4	1	5	7	11	8	9	13	8	26	52	88	121	189	211	322	412	852
		M	1,188	1	2	1	3	6	9	5	8	10	4	19	42	57	87	136	118	183	199	298
		F	1,158	6	2	-	2	1	2	3	1	3	4	7	10	31	34	53	93	139	213	554
401, 403	Hypertensive Disease (Without Mention of Heart Disease)	T	115	-	-	-	-	-	-	1	-	1	1	1	1	1	7	10	12	22	27	31
		M	52	-	-	-	-	-	-	-	-	-	1	-	-	-	5	8	3	8	18	9
		F	63	-	-	-	-	-	-	1	-	1	-	1	1	1	2	2	9	14	9	22
430-438	Cerebrovascular Disease	T	3,238	1	-	-	-	4	2	3	7	8	19	27	46	70	91	217	316	498	682	1,247
		M	1,381	-	-	-	-	3	2	1	5	6	9	12	24	38	51	117	163	234	300	416
		F	1,857	1	-	-	-	1	-	2	2	2	10	15	22	32	40	100	153	264	382	831
431	Cerebral Hemorrhage	T	312	-	-	-	-	-	1	2	2	-	5	4	12	20	21	43	44	55	46	57
		M	138	-	-	-	-	-	1	1	2	-	2	3	8	10	11	19	18	26	23	14
		F	174	-	-	-	-	-	-	1	-	-	3	1	4	10	10	24	26	29	23	43
434	Occlusion of Cerebral Arteries	T	529	-	-	-	-	-	-	-	-	1	1	3	4	8	14	37	44	80	121	216
		M	244	-	-	-	-	-	-	-	-	-	1	1	3	4	12	23	23	46	56	75
		F	285	-	-	-	-	-	-	-	-	1	-	2	1	4	2	14	21	34	65	141
440-448	Diseases of the Arteries, Arterioles and Capillaries	T	1,014	-	-	-	1	2	2	1	-	1	2	5	9	16	44	65	110	137	159	460
		M	492	-	-	-	-	-	2	-	-	1	1	4	6	12	35	46	71	84	73	157
		F	522	-	-	-	1	2	-	1	-	-	1	1	3	4	9	19	39	53	86	303
440	Arteriosclerosis	T	651	-	-	-	-	-	-	-	-	-	-	-	4	2	8	22	48	72	106	389
		M	253	-	-	-	-	-	-	-	-	-	-	-	3	1	6	16	25	37	40	125
		F	398	-	-	-	-	-	-	-	-	-	-	-	1	1	2	6	23	35	66	264
451-459	Diseases of Veins and Lymphatics and Other Diseases of Circulatory System	T	82	-	-	-	-	-	2	2	1	-	1	3	5	7	4	9	8	17	11	12
		M	44	-	-	-	-	-	1	2	1	-	1	2	3	4	1	6	3	11	4	5
		F	38	-	-	-	-	-	1	-	-	-	-	1	2	3	3	3	5	6	7	7
451	Phlebitis and Thrombophlebitis	T	37	-	-	-	-	-	2	1	1	-	-	1	2	2	4	4	3	9	4	4
		M	20	-	-	-	-	-	1	1	1	-	-	-	1	2	1	2	-	6	3	2
		F	17	-	-	-	-	-	1	-	-	-	-	1	1	-	3	2	3	3	1	2
460-519	VIII. DISEASES OF THE RESPIRATORY SYSTEM	T	2,411	29	10	3	2	5	10	5	3	6	12	13	33	63	106	203	281	347	427	853
		M	1,376	22	7	3	-	-	4	3	1	4	4	10	19	41	70	138	190	221	251	388
		F	1,035	7	3	-	2	5	6	2	2	2	8	3	14	22	36	65	91	126	176	465
466	Acute Bronchitis and Bronchiolitis	T	8	1	1	-	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	3
		M	5	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2
		F	3	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1
480-487	Pneumonia and Influenza	T	1,213	15	3	1	-	5	4	2	-	2	2	8	8	17	21	39	89	143	240	614
		M	580	12	3	1	-	-	3	2	-	1	1	6	3	12	9	24	63	77	128	235
		F	633	3	-	-	-	5	1	-	-	1	1	2	5	5	12	15	26	66	112	379
480-486	Pneumonia	T	1,136	14	3	1	-	4	4	2	-	2	2	8	8	17	19	38	83	139	231	561
		M	555	11	3	1	-	-	3	2	-	1	1	6	3	12	9	24	60	75	123	220
		F	581	3	-	-	-	4	1	-	-	1	1	2	5	5	10	14	23	63	108	341
487	Influenza	T	77	1	-	-	-	1	-	-	-	-	-	-	-	-	2	1	6	4	9	53
		M	25	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	5	15
		F	52	-	-	-	-	1	-	-	-	-	-	-	-	-	2	1	3	3	4	38

Table 28
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1980 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
490-491	Bronchitis, Chronic and Unspecified	T	54	-	2	1	-	-	-	-	-	-	-	-	-	-	2	8	7	11	11	12
		M	39	-	1	1	-	-	-	-	-	-	-	-	-	-	2	8	4	9	8	6
		F	15	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	3	6
492	Emphysema	T	195	-	-	-	-	-	-	-	-	-	1	1	1	8	15	36	35	47	28	23
		M	141	-	-	-	-	-	-	-	-	-	-	-	1	5	15	25	22	36	23	14
		F	54	-	-	-	-	-	-	-	-	-	1	1	-	3	-	11	13	11	5	9
493	Asthma	T	51	-	-	-	1	-	2	-	-	1	2	-	1	7	2	4	4	6	12	9
		M	21	-	-	-	-	-	1	-	-	-	1	-	-	3	-	3	3	3	5	2
		F	30	-	-	-	1	-	1	-	-	1	1	-	1	4	2	1	1	3	7	7
Residual	(460-465, 467-479, 494-519)	T	890	13	4	1	1	-	3	3	3	3	7	4	23	31	66	115	145	140	136	192
		M	590	9	2	1	-	-	-	1	1	3	2	4	15	21	44	78	97	96	87	129
		F	300	4	2	-	1	-	3	2	2	-	5	-	8	10	22	37	48	44	49	63
520-579	IX. DISEASES OF THE DIGESTIVE SYSTEM	T	1,102	4	4	1	-	3	4	1	8	23	33	39	61	63	94	127	110	137	139	251
		M	576	3	2	1	-	3	4	1	6	16	16	28	40	34	63	78	62	69	58	92
		F	526	1	2	-	-	-	-	-	2	7	17	11	21	29	31	49	48	68	81	159
531-533	Ulcer of the Stomach and Duodenum	T	102	-	1	-	-	-	1	-	1	1	4	-	2	5	5	9	13	15	16	29
		M	44	-	-	-	-	-	1	-	-	1	1	-	-	2	4	7	5	8	7	8
		F	58	-	1	-	-	-	-	-	1	-	3	-	2	3	1	2	8	7	9	21
540-543	Appendicitis	T	10	-	-	-	-	-	-	-	1	1	-	-	-	-	2	1	-	1	2	2
		M	5	-	-	-	-	-	-	-	1	1	-	-	-	-	1	1	-	1	-	-
		F	5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	2
550-553, 560	Hernia and Other Obstruction	T	78	1	1	-	-	-	-	-	-	1	1	-	1	2	2	4	8	8	11	38
		M	36	1	1	-	-	-	-	-	-	1	1	-	-	2	1	2	5	4	3	15
		F	42	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	3	4	8	23
571	Chronic Liver Disease and Cirrhosis	T	329	-	1	-	-	2	2	-	4	13	17	29	38	30	53	50	41	29	13	7
		M	214	-	1	-	-	2	2	-	3	9	7	22	29	16	40	27	29	17	6	4
		F	115	-	-	-	-	-	-	-	1	4	10	7	9	14	13	23	12	12	7	3
574-576	Cholelithiasis and Other Disorders of Gallbladder and Biliary Tract	T	76	-	-	-	-	-	-	-	-	-	-	1	2	2	-	4	5	21	11	30
		M	36	-	-	-	-	-	-	-	-	-	-	1	1	1	-	2	2	14	3	12
		F	40	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	3	7	8	18
Residual	(520-530, 534-539, 544-549, 554-559, 561-570, 572-573, 577-579)	T	507	3	1	1	-	1	1	1	2	7	11	9	18	24	32	59	43	63	86	145
		M	241	2	-	1	-	1	1	1	2	4	7	5	10	13	17	39	21	25	39	53
		F	266	1	1	-	-	-	-	-	-	3	4	4	8	11	15	20	22	38	47	92
580-629	X. DISEASES OF THE GENITOURINARY SYSTEM	T	397	2	-	-	-	-	2	1	2	2	3	5	3	6	17	21	51	53	83	146
		M	210	1	-	-	-	-	2	-	1	1	2	2	3	4	10	12	28	30	46	68
		F	187	1	-	-	-	-	-	1	1	1	1	3	-	2	7	9	23	23	37	78
580-589	Nephritis, Nephrotic Syndrome and Nephrosis	T	231	2	-	-	-	-	2	-	2	-	-	4	3	4	14	11	37	35	45	72
		M	126	1	-	-	-	-	2	-	1	-	-	2	3	2	9	8	22	21	23	32
		F	105	1	-	-	-	-	-	-	1	-	-	2	-	2	5	3	15	14	22	40
590	Infections of the Kidney	T	36	-	-	-	-	-	-	1	-	-	-	-	-	-	2	2	5	4	9	13
		M	15	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	7	4
		F	21	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	4	2	2	9
600	Hyperplasia of the Prostate	T	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	10
		M	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	10
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual	(591-599, 601-629)	T	117	-	-	-	-	-	-	-	-	2	3	1	-	2	1	7	8	13	29	51
		M	56	-	-	-	-	-	-	-	-	1	2	-	-	2	-	3	4	6	16	22
		F	61	-	-	-	-	-	-	-	-	1	1	1	-	-	1	4	4	7	13	29
630-676	XI. COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	T	4	-	-	-	-	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	4	-	-	-	-	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-
630-639	Pregnancy with Abortive Outcome	T	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
640-648	Complications of Pregnancy	T	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Residual	(649-676)	T	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
680-709	XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE	T	26	-	-	-	-	-	-	1	-	-	-	1	1	1	2	3	3	2	3	9
		M	8	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1	1	3
		F	18	-	-	-	-	-	-	1	-	-	-	1	-	1	1	3	2	1	2	6
710-739	XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE	T	84	-	-	-	-	-	-	-	1	-	3	-	2	5	10	12	11	14	15	11
		M	29	-	-	-	-	-	-	-	-	-	1	-	1	1	4	5	6	5	3	3
		F	55	-	-	-	-	-	-	-	1	-	2	-	1	4	6	7	5	9	12	8
740-759	XIV. CONGENITAL ANOMALIES	T	264	165	25	6	2	2	5	4	3	4	8	2	2	6	7	5	8	5	4	1
		M	134	87	12	1	1	1	2	2	2	2	5	1	2	2	2	2	5	1	3	1
		F	130	78	13	5	1	1	3	2	1	2	3	1	-	4	5	3	3	4	1	-
760-779	XV. CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD[1]	T	300*	294	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
		M	185	182	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	115*	112	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
780-799	XVI. SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS	T	617	118	1	-	1	1	2	5	8	3	3	9	11	16	36	51	54	77	89	132
		M	320	67	1	-	1	-	1	4	6	3	2	5	7	10	22	26	33	51	39	42
		F	297	51	-	-	-	1	1	1	2	-	1	4	4	6	14	25	21	26	50	90
E800-E999	XVII. ACCIDENTS, POISONINGS, AND VIOLENCE	T	2,419*	25	50	44	61	263	356	233	158	116	109	87	116	92	117	97	91	104	119	177
		M	1,682*	9	31	21	48	198	282	197	126	94	64	59	88	67	75	72	66	58	56	68
		F	737*	16	19	23	13	65	74	36	32	22	45	28	28	25	42	25	25	46	63	109

Table 28
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1980 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
E800-E949	Accidents--Total	T	1,806*	19	43	40	53	219	254	160	102	69	67	55	79	67	79	70	66	85	110	168
		M	1,233*	8	27	19	42	166	203	132	85	57	43	38	60	47	52	53	47	41	50	62
		F	573	11	16	21	11	53	51	28	17	12	24	17	19	20	27	17	19	44	60	106
E810-E825	Motor Vehicle Accidents	T	902	5	14	19	29	167	185	100	58	42	34	33	33	25	37	27	22	21	31	10
		M	641	2	4	9	23	125	147	82	49	35	19	22	23	20	19	17	15	11	15	4
		F	261	3	10	10	6	42	38	18	9	7	15	11	10	15	18	10	7	10	16	6
Re-sid-ual	Other Accidents (800-809, 826-949)	T	904*	14	29	21	24	52	69	60	44	27	33	22	46	32	42	43	44	64	79	158
		M	592*	6	23	10	19	41	56	50	36	22	24	16	37	27	33	36	32	30	35	58
		F	312	8	6	11	5	11	13	10	8	5	9	6	9	5	9	7	12	34	44	100
E950-E959	Suicide and Self-Inflicted Injury	T	440*	-	-	-	3	33	69	52	38	37	31	25	30	19	32	19	21	15	8	7
		M	342*	-	-	-	2	26	60	47	28	30	14	17	22	16	21	15	18	14	6	5
		F	98	-	-	-	1	7	9	5	10	7	17	8	8	3	11	4	3	1	2	2
E960-E969	Homicide and Injury Purposely Inflicted by Other Persons	T	120	4	5	4	3	7	26	15	10	5	8	6	4	5	3	6	4	3	1	1
		M	76	1	3	2	2	3	16	12	8	4	6	4	4	4	1	3	1	2	-	-
		F	44	3	2	2	1	4	10	3	2	1	2	2	-	1	2	3	3	1	1	1
E970-E978	Legal Intervention	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E980-E989	Injury Undetermined Whether Accidentally or Purposely Inflicted	T	52*	2	2	-	2	4	7	6	8	5	3	1	3	1	3	2	-	1	-	-
		M	30*	-	1	-	2	3	3	6	5	3	1	-	2	-	1	1	-	1	-	-
		F	22*	2	1	-	-	1	4	-	3	2	2	1	1	1	2	1	-	-	-	-
E990-E999	Injury Resulting from Operations of War	T	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
		M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Includes age unknown

[1] For further detail on perinatal mortality see page 24.

Table 29
DEATHS DUE TO SELECTED CAUSES BY RACE
MINNESOTA RESIDENTS, 1980

	Total	White	Black	Indian	Other	Unknown
All Causes - Total	33,415	32,811	325	199	52	28
Infective - parasitic	226	213	6	6	1	-
Tuberculosis	16	14	-	1	1	-
Neoplasms - malignant	6,964	6,869	60	19	14	2
Digestive	1,905	1,878	15	4	7	1
Respiratory	1,501	1,476	19	3	2	1
Breast	630	624	4	-	2	-
Genital	872	863	5	3	1	-
Urinary	335	333	1	1	-	-
Leukemia	356	350	3	3	-	-
Diabetes mellitus	497	486	5	4	1	1
Major cardiovascular	16,963	16,759	123	56	10	15
Rheumatic	129	128	-	-	1	-
Hypertensive heart	229	225	3	1	-	-
Ischemic heart	9,681	9,559	66	39	4	13
Other heart	2,346	2,320	19	4	2	1
Hypertension	115	111	3	1	-	-
Cerbrovascular	3,238	3,206	19	9	3	1
Arteriosclerosis	651	648	3	-	-	-
Respiratory	2,411	2,369	21	15	6	-
Pneumonia	1,136	1,110	12	9	5	-
Influenza	77	76	-	1	-	-
Bronchitis	54	54	-	-	-	-
Emphysema	195	191	4	-	-	-
Asthma	51	50	-	1	-	-
Ulcer of stomach & duodenum	102	100	1	1	-	-
Hernia & intestinal obstruction	78	78	-	-	-	-
Chronic liver disease & cirrhosis	329	314	4	8	1	2
Nephritis, nephrotic syndrome & nephrosis	231	227	2	1	1	-
Kidney infections	36	36	-	-	-	-
Pregnancy, childbirth & puerperium	4	4	-	-	-	-
Congenital anomalies	264	244	11	3	6	-
Certain conditions originating in the perinatal period	300	278	13	6	1	2
Ill-defined	617	589	14	12	2	-
Other diseases	1,974	1,952	11	7	4	-
Accidents	1,806	1,718	30	49	4	5
Motor vehicle	902	865	8	24	4	1
Accidental falls	305	300	2	3	-	-
Suicide	440	425	9	6	-	-
Homicide	120	98	15	6	1	-
Other violent deaths	53	52	-	-	-	1

Table 30
FIFTEEN LEADING CAUSES OF DEATH, DEATH RATES PER 100,000 POPULATION AND PERCENT OF TOTAL DEATHS, MINNESOTA RESIDENTS, 1980

Cause of Death	Number of Deaths	Death Rates	Percent of Total
Heart Disease (390-398, 402, 404-429)	12,596	309.0	37.7
Cancer (Malignant neoplasms) (140-208)	6,964	170.9	20.8
Cerebrovascular Disease (430-438)	3,238	79.4	9.7
Accidental Deaths (800-949)	1,806	44.3	5.4
Motor vehicle (810-825)	(902)	(22.1)	(2.7)
Accidental falls (880-888)	(305)	(7.5)	(0.9)
Pneumonia and Influenza (480-487)	1,213	29.8	3.6
Pneumonia (480-486)	(1,136)	(27.9)	(3.4)
Influenza (487)	(77)	(1.9)	(0.2)
Arteriosclerosis (440)	651	16.0	1.9
Diabetes mellitus (250)	497	12.2	1.5
Suicide (950-959)	440	10.8	1.3
Chronic Liver Disease and Cirrhosis (571)	329	8.1	1.0
Certain Conditions Originating in the Perinatal Period (760-779)	300	7.4	0.9
Chronic Bronchitis, Emphysema and Asthma (490-493)	300	7.4	0.9
Congenital anomalies (740-759)	264	6.5	0.8
Nephritis, Nephrotic syndrome, and Nephrosis (580-589)	231	5.7	0.7
Parkinson's Disease* (332)	122	3.0	0.4
Homicide (960-978)	120	2.9	0.4
All other causes	4,344	106.6	13.0
Total - all causes	33,415	819.8	100.0

* Included for the first time in the top 15 causes due to a new category established as of 1979 in ICD9. Previous revisions of the ICD did not uniquely identify Parkinson's Disease.

Table 31
LEADING CAUSES OF DEATH BY SELECTED AGE GROUPS
MINNESOTA RESIDENTS, 1980

	No. of Deaths	Per-cent
1-4 Years		
Total, all causes	126	100.0
Accidental deaths	43	34.1
Motor vehicle	(14)	(11.1)
Congenital anomalies	25	19.8
Diseases of the respiratory system	10	7.9
Malignant neoplasms	9	7.1
Diseases of the nervous system and sense organs	8	6.3
Infectious and parasitic diseases	7	5.6
5-9 Years		
Total, all causes	80	100.0
Accidental deaths	40	50.0
Motor vehicle	(19)	(23.8)
Malignant neoplasms	18	22.5
Congenital anomalies	6	7.5
Homicide	4	5.0
Diseases of the nervous system and sense organs	3	3.8
Diseases of the respiratory system	3	3.8
10-14 Years		
Total, all causes	93	100.0
Accidental deaths	53	57.0
Motor vehicle	(29)	(31.2)
Malignant neoplasms	15	16.1
Diseases of the heart	6	6.5
Diseases of the nervous system and sense organs	3	3.2
Homicide	3	3.2
Suicide	3	3.2
15-19 Years		
Total, all causes	319	100.0
Accidental deaths	219	68.7
Motor vehicle	(167)	(52.4)
Suicide	33	10.3
Malignant neoplasms	15	4.7
Diseases of the nervous system and sense organs	12	3.8
Diseases of the heart	7	2.2
Homicide	7	2.2
20-34 Years		
Total, all causes	1,052	100.0
Accidental deaths	516	49.0
Motor vehicle	(343)	(32.6)
Suicide	159	15.1
Malignant neoplasms	99	9.4
Diseases of the heart	59	5.6
Homicide	51	4.8
Injuries undetermined	21	2.0

	No. of Deaths	Per-cent
35-49 Years		
Total, all causes	1,373	100.0
Malignant neoplasms	405	29.5
Diseases of the heart	337	24.5
Accidental deaths	191	13.9
Motor vehicle	(109)	(7.9)
Suicide	93	6.8
Chronic liver disease and cirrhosis	59	4.3
Cerebrovascular disease	54	3.9
50-64 Years		
Total, all causes	4,934	100.0
Diseases of the heart	1,847	37.4
Malignant neoplasms	1,649	33.4
Accidental deaths	225	4.6
Motor vehicle	(105)	(2.1)
Cerebrovascular disease	207	4.2
Chronic liver disease and cirrhosis	121	2.5
Diabetes	91	1.8
65-74 Years		
Total, all causes	7,131	100.0
Diseases of the heart	2,856	40.1
Malignant neoplasms	2,042	28.6
Cerebrovascular disease	533	7.5
Accidental deaths	136	1.9
Motor vehicle	(49)	(0.7)
Pneumonia and influenza	128	1.8
Diabetes	114	1.6
75 Years and Over		
Total, all causes	17,621	100.0
Diseases of the heart	7,468	42.4
Malignant neoplasms	2,709	15.4
Cerebrovascular disease	2,427	13.8
Pneumonia and influenza	997	5.7
Arteriosclerosis	567	3.2
Accidental deaths	363	2.1
Motor vehicle	(62)	(0.4)
Ill-defined conditions	298	1.7

Table 32
DEATHS OCCURRING IN MINNESOTA BY CAUSE AND AUTOPSY STATUS
1980

Cause of Death	Total Deaths	Autopsy Status					
		Number			Percent		
		Performed	Not Performed	Not Stated	Performed	Not Performed	Not Stated
All Causes - Total	34,015	6,280	23,584	4,151	18.5	69.3	12.2
I. Infectious and parasitic diseases	240	73	145	22	30.4	60.4	9.2
II. Neoplasms	7,217	1,044	5,223	950	14.5	72.4	13.2
III. Endocrine, nutritional, and metabolic diseases	674	113	470	91	16.8	69.7	13.5
IV. Diseases of the blood and blood-forming organs	124	40	77	7	32.3	62.1	5.6
V. Mental disorders	315	37	235	43	11.7	74.6	13.7
VI. Diseases of the nervous system and sense organs	412	72	287	53	17.5	69.7	12.9
VII. Diseases of the circulatory system	17,267	2,501	12,510	2,256	14.5	72.5	13.1
VIII. Diseases of the respiratory system	2,435	353	1,727	355	14.5	70.9	14.6
IX. Diseases of the digestive system	1,154	379	663	112	32.8	57.5	9.7
X. Diseases of the genitourinary system	403	60	294	49	14.9	73.0	12.2
XI. Complications of pregnancy, childbirth, and the puerperium	4	3	1	0	75.0	25.0	0.0
XII. Diseases of the skin and subcutaneous tissue	24	3	20	1	12.5	83.3	4.2
XIII. Diseases of the musculoskeletal system and connective tissue	93	29	57	7	31.2	61.3	7.5
XIV. Congenital anomalies	335	222	90	23	66.3	26.9	6.9
XV. Certain conditions originating in the perinatal period	309	147	136	26	47.6	44.0	8.4
XVI. Symptoms and ill-defined conditions	607	145	413	49	23.9	68.0	8.1
XVII. Accidents, poisoning, and violence	2,402	1,059	1,236	107	44.1	51.5	4.5

Table 33
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*
MINNESOTA, 1980

		State	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth	Brown	Carlton	Carver
DEATHS - Total		33,415†	157	712	292	276	208	108	414	280	274	241
Rate:	Age & sex adjusted	8.2	7.8	7.0	8.4	9.5	8.8	8.9	8.2	7.8	8.4	8.1
Rate:	Sex adjusted-age specific											
	Under 5 years	2.6	4.3	2.2	4.2	2.5	2.9	3.8	2.1	3.8	3.0	2.5
	5-14 years	0.3	0.5	0.3	0.8	0.4	0.2	-	0.6	0.2	0.4	0.2
	15-24 years	1.0	0.5	0.8	2.0	1.0	1.6	0.8	0.6	1.4	1.2	0.9
	25-44 years	1.2	0.7	1.3	1.8	2.4	0.4	1.3	0.9	0.8	1.0	0.6
	45-64 years	7.5	9.3	6.7	8.5	9.0	6.9	8.3	7.2	7.0	10.2	6.5
	65 years and over	51.6	46.5	43.4	46.8	57.6	58.3	56.1	53.4	48.9	48.6	53.9
Sex:	Male	18,138	85	434	189	158	120	54	220	153	171	142
	Female	15,277	72	278	103	118	88	54	194	127	103	99
Race:	White	32,811	157	706	283	249	207	108	413	280	270	241
	Black	325	-	2	-	1	1	-	-	-	-	-
	Indian	199	-	2	9	24	-	-	1	-	4	-
	Other & Unknown	80	-	2	-	2	-	-	-	-	-	-
ICDA**	CAUSE OF DEATH											
001-139	Infective-parasitic	226	1	10	2	1	1	1	1	1	3	-
010-018	Tuberculosis	16	1	2	1	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	6,964	36	166	39	59	25	24	83	55	68	51
150-159	Digestive	1,905	11	37	9	15	10	10	27	11	17	10
160-165	Respiratory	1,501	8	50	13	11	3	4	18	12	14	14
174-175	Breast	630	3	16	2	8	1	4	5	11	10	6
179-187	Genital	872	8	15	5	7	3	2	10	7	6	2
188-189	Urinary	335	2	5	-	1	1	-	5	2	5	2
204-208	Leukemia	356	-	6	3	3	1	1	2	3	6	4
250	Diabetes mellitus	497	-	10	-	1	6	2	10	3	3	3
390-448	Major cardiovascular	16,963	79	304	150	143	115	60	224	158	150	129
390-398	Rheumatic	129	-	-	-	2	2	-	2	1	-	1
402,404	Hypertensive heart	229	-	3	3	1	2	-	3	3	3	1
410-414	Ischemic heart	9,681	43	186	105	82	73	24	137	90	78	80
420-429	Other heart	2,346	8	39	10	15	19	15	19	23	17	10
400-401, & 403	Hypertension	115	-	1	1	2	-	-	1	-	1	-
430-438	Cerebrovascular	3,238	20	52	23	32	12	14	46	30	36	24
440	Arteriosclerosis	651	6	15	3	4	4	4	8	5	8	9
460-519	Respiratory	2,411	9	45	39	17	25	4	36	14	18	11
480-486	Pneumonia	1,136	4	14	17	5	10	3	17	8	8	3
487	Influenza	77	-	1	-	2	-	-	-	-	-	2
490-491	Bronchitis	54	-	3	-	-	-	-	1	1	1	-
492	Emphysema	195	1	4	3	2	1	-	3	-	5	3
493	Asthma	51	-	2	2	-	-	1	-	1	1	1
531-533	Ulcer of stomach and duodenum	102	1	2	1	-	2	-	-	1	-	2
550-553, & 560	Hernia & intestinal obstruction	78	1	-	-	-	1	1	1	1	-	1
571	Chronic liver disease and cirrhosis	329	1	8	5	3	2	2	8	2	4	4
580-589	Nephritis, nephrotic syndrome & nephrosis	231	2	6	3	-	-	1	2	3	-	2
590	Kidney infection	36	-	1	-	-	-	-	-	2	-	-
630-676	Pregnancy, childbirth & puerperium	4	-	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	264	1	12	3	2	2	-	2	-	2	6
760-779	Infant mortality	300	-	16	5	-	1	2	1	5	2	2
780-799	Ill-defined	617	2	10	3	2	2	-	3	1	2	2
Residual	Other diseases	1,974	9	33	13	21	9	5	16	14	10	13
E800-949	Accidents	1,806	12	70	22	26	14	6	22	15	7	11
E810-825	Motor vehicle	902	3	47	14	14	11	4	12	9	5	7
E880-888	Accidental falls	305	2	6	1	1	1	-	5	2	1	2
E950-959	Suicide	440	2	17	4	1	-	-	2	4	4	4
E960-978	Homicide & legal intervention	120	1	2	3	-	3	-	2	1	1	-
E980-999	Other violent deaths	53	-	-	-	-	-	-	1	-	-	-

Table 33
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

		Cass	Chippewa	Chisago	Clay	Clear-water	Cook	Cotton-wood	Crow Wing	Dakota	Dodge	Douglas
Deaths - Total		257	170	207	332	107	37	179	440	869	127	277
Rate:	Age & sex adjusted	8.7	8.1	7.9	7.7	8.8	7.4	8.2	8.4	7.4	8.0	7.9
Rate:	Sex adjusted-age specific											
	Under 5 years	3.9	1.6	4.9	1.4	2.8	-	-	3.1	1.9	0.7	3.7
	5-14 years	1.0	-	0.6	0.5	-	-	-	0.5	0.2	-	0.5
	15-24 years	2.3	1.7	1.1	0.6	1.3	3.2	0.9	1.9	1.0	1.2	1.0
	25-44 years	3.0	0.8	1.3	1.5	1.0	1.7	1.5	1.1	0.9	1.0	1.8
	45-64 years	6.7	8.2	5.5	5.4	8.6	2.4	7.1	7.8	5.8	6.9	6.8
	65 years and over	49.0	50.5	49.6	51.1	55.5	50.0	54.2	50.9	49.0	52.9	47.6
Sex:	Male	150	97	114	182	62	22	92	257	471	79	156
	Female	107	73	93	150	45	15	87	183	398	48	121
Race:	White	235	170	207	331	105	36	179	440	860	127	277
	Black	1	-	-	-	-	-	-	-	4	-	-
	Indian	21	-	-	-	2	1	-	-	1	-	-
	Other & Unknown	-	-	-	1	-	-	-	-	4	-	-
ICDA**	CAUSE OF DEATH											
001-139	Infective-parasitic	-	1	1	3	-	-	-	-	5	1	1
010-018	Tuberculosis	-	-	-	-	-	-	-	-	-	1	-
140-208	Neoplasms-malignant	64	34	38	72	9	7	37	93	181	27	46
150-159	Digestive	16	10	12	16	3	2	10	37	46	7	13
160-165	Respiratory	15	4	6	13	1	1	6	20	41	7	13
174-175	Breast	3	2	5	5	-	-	5	4	12	2	5
179-187	Genital	9	8	6	12	2	-	9	10	24	3	8
188-189	Urinary	4	2	1	6	1	1	2	4	4	-	1
204-208	Leukemia	3	2	2	3	-	-	1	3	14	2	-
250	Diabetes mellitus	1	2	4	5	2	1	3	7	12	2	2
390-448	Major cardiovascular	120	91	110	166	67	17	96	238	428	56	148
390-398	Rheumatic	3	-	1	-	-	1	-	2	5	1	-
402,404	Hypertensive heart	-	1	2	-	-	-	3	5	3	-	2
410-414	Ischemic heart	67	55	51	93	42	12	58	129	264	28	76
420-429	Other heart	16	11	10	22	2	2	12	39	45	10	15
400-401, & 403	Hypertension	1	-	2	-	-	-	-	-	3	-	2
430-438	Cerebrovascular	25	17	40	36	16	-	16	48	81	15	34
440	Arteriosclerosis	-	3	1	8	6	-	2	5	12	-	13
460-519	Respiratory	26	11	13	23	10	2	13	35	46	19	23
480-486	Pneumonia	14	5	6	2	2	-	7	12	20	11	11
487	Influenza	-	1	-	4	-	-	-	1	4	-	2
490-491	Bronchitis	1	1	-	2	-	-	-	-	2	-	-
492	Emphysema	1	-	2	2	-	1	1	2	3	2	-
493	Asthma	2	-	-	-	1	-	-	-	-	-	-
531-533	Ulcer of stomach and duodenum	1	-	-	-	-	-	-	-	2	-	-
550-553, & 560	Hernia & intestinal obstruction	-	-	1	1	-	-	-	2	4	-	1
571	Chronic liver disease and cirrhosis	1	1	1	5	-	-	1	1	14	-	4
580-589	Nephritis, nephrotic syndrome & nephrosis	-	-	2	1	1	-	1	7	4	1	2
590	Kidney infection	-	-	1	2	-	-	1	-	1	-	1
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	1	-	-
740-759	Congenital anomalies	1	1	2	2	-	1	2	2	13	-	3
760-779	Infant mortality	3	-	4	1	1	-	-	4	7	-	7
780-799	Ill-defined	4	-	2	3	2	-	5	4	12	4	-
Residual	Other diseases	11	16	11	24	7	4	9	17	57	5	19
E800-949	Accidents	22	9	14	17	6	2	8	20	59	9	15
E810-825	Motor vehicle	11	6	7	13	3	-	2	13	37	4	8
E880-888	Accidental falls	1	1	3	1	1	-	5	3	9	1	1
E950-959	Suicide	1	3	3	3	2	3	3	6	16	2	5
E960-978	Homicide & legal intervention	2	-	-	4	-	-	-	3	6	-	-
E980-999	Other violent deaths	-	1	-	-	-	-	-	1	1	1	-

Table 33
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

		Faribault	Fillmore	Freeborn	Goodhue	Grant	Hennepin	Minneapolis	Houston	Hubbard	Isanti
DEATHS - Total		252	260	345	398	95	7,439	4,218	177	148	194
Rate:	Age & sex adjusted	9.0	8.3	7.7	8.2	8.2	8.5	9.8	7.9	8.1	8.9
Rate:	Sex adjusted-age specific										
	Under 5 years	4.7	3.5	2.7	3.1	-	2.6	3.8	4.7	4.4	3.5
	5-14 years	0.4	0.3	0.2	0.5	1.0	0.3	0.3	-	-	0.2
	15-24 years	0.9	0.9	1.1	1.3	1.9	0.8	0.9	1.2	1.3	1.5
	25-44 years	1.1	1.4	1.0	1.2	1.3	1.1	1.6	0.5	1.2	0.6
	45-64 years	8.0	6.4	5.1	6.9	7.8	7.8	11.0	6.7	9.4	9.3
	65 years and over	56.3	53.3	51.5	51.7	50.2	54.0	58.2	50.6	46.6	55.1
Sex:	Male	132	134	200	211	52	3,817	2,152	107	82	109
	Female	120	126	145	187	43	3,622	2,066	70	66	85
Race:	White	251	260	344	398	95	7,157	3,968	177	146	192
	Black	-	-	-	-	-	189	173	-	-	-
	Indian	-	-	-	-	-	65	62	-	2	-
	Other & Unknown	1	-	1	-	-	28	15	-	-	2
ICDA**	CAUSE OF DEATH										
001-139	Infective-parasitic	1	3	1	2	-	56	37	2	-	1
010-018	Tuberculosis	-	-	-	1	-	5	5	-	-	-
140-208	Neoplasms-malignant	47	52	65	82	18	1,628	880	37	39	26
150-159	Digestive	13	12	16	20	6	440	239	15	16	6
160-165	Respiratory	8	13	18	14	3	405	223	6	6	6
174-175	Breast	5	6	6	10	-	149	75	5	1	3
179-187	Genital	5	8	4	11	2	196	121	4	6	4
188-189	Urinary	-	1	6	7	2	76	40	-	-	1
204-208	Leukemia	7	-	4	4	1	82	44	1	4	-
250	Diabetes mellitus	2	6	6	2	-	115	63	2	-	7
390-448	Major cardiovascular	138	140	185	208	54	3,453	1,949	88	66	105
390-398	Rheumatic	-	1	1	1	-	29	13	1	-	1
402,404	Hypertensive heart	4	2	2	6	-	39	15	2	-	1
410-414	Ischemic heart	95	73	90	113	31	2,071	1,178	50	39	43
420-429	Other heart	16	22	49	21	12	397	247	8	15	23
400-401, & 403	Hypertension	-	1	1	1	1	25	15	2	-	-
430-438	Cerebrovascular	15	29	31	52	7	638	328	20	8	30
440	Arteriosclerosis	3	7	6	4	2	137	87	3	2	6
460-519	Respiratory	19	23	29	35	6	534	308	16	14	21
480-486	Pneumonia	11	13	8	16	2	255	154	7	7	12
487	Influenza	-	-	2	-	-	12	6	-	1	2
490-491	Bronchitis	-	3	1	-	-	18	9	-	-	-
492	Emphysema	2	2	1	3	-	45	22	2	-	-
493	Asthma	-	-	1	-	-	10	5	-	-	-
531-533	Ulcer of stomach and duodenum	1	-	3	1	-	18	9	-	1	-
550-553, & 560	Hernia & intestinal obstruction	-	1	1	-	1	14	11	1	-	-
571	Chronic liver disease and cirrhosis	1	-	2	2	2	90	62	-	-	-
580-589	Nephritis, nephrotic syndrome & nephrosis	1	3	1	1	2	43	27	-	3	-
590	Kidney infection	-	-	1	1	-	7	4	-	-	2
630-676	Pregnancy, childbirth & puerperium	-	-	-	1	-	2	1	-	-	-
740-759	Congenital anomalies	3	2	2	2	-	49	20	1	1	-
760-779	Infant mortality	2	1	5	3	-	57	36	3	3	4
780-799	Ill-defined	2	2	5	3	1	284	201	2	1	2
Residual	Other diseases	19	11	22	23	6	494	293	12	8	14
E800-949	Accidents	13	11	14	24	5	377	200	10	11	11
E810-825	Motor vehicle	4	3	7	14	3	133	57	5	9	9
E880-888	Accidental falls	3	3	3	3	1	100	62	3	-	-
E950-959	Suicide	3	5	2	8	-	142	67	3	1	1
E960-978	Homicide & legal intervention	-	-	1	-	-	51	38	-	-	-
E980-999	Other violent deaths	-	-	-	-	-	25	12	-	-	-

Table 33

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

		Itasca	Jackson	Kanabec	Kandiyohi	Kittson	Koochiching	Lac Qui Parle	Lake	Lake of the Woods	Le Sueur
DEATHS - Total		381	114	117	325	88	155	144	101	46	238
Rate:	Age & sex adjusted	8.3	6.4	8.4	7.8	9.0	8.7	8.9	7.6	8.9	8.6
Rate:	Sex adjusted-age specific										
	Under 5 years	3.3	2.9	4.9	3.8	4.1	1.4	1.3	2.1	4.1	2.6
	5-14 years	0.4	0.5	0.5	0.2	-	0.7	-	-	-	0.5
	15-24 years	0.7	-	3.4	0.7	4.2	1.9	0.6	1.3	1.6	0.9
	25-44 years	1.4	0.7	1.0	1.0	1.2	1.7	1.2	1.5	1.1	0.9
	45-64 years	9.8	6.9	7.6	9.0	5.6	6.8	10.2	7.3	6.2	8.4
	65 years and over	48.4	39.5	47.7	46.0	55.8	54.2	55.1	46.8	58.5	54.5
Sex:	Male	214	58	74	188	53	94	84	57	31	129
	Female	167	56	43	137	35	61	60	44	15	109
Race:	White	377	114	117	323	88	150	144	101	46	236
	Black	-	-	-	-	-	-	-	-	-	1
	Indian	4	-	-	2	-	2	-	-	-	-
	Other & Unknown	-	-	-	-	-	3	-	-	-	1
ICDA**	CAUSE OF DEATH										
001-139	Infective-parasitic	4	-	1	5	-	1	1	1	1	2
010-018	Tuberculosis	-	-	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	84	15	20	66	20	36	23	19	4	46
150-159	Digestive	16	3	4	19	5	11	9	7	-	14
160-165	Respiratory	19	3	9	11	4	6	2	5	2	10
174-175	Breast	9	4	-	10	1	2	2	1	-	3
179-187	Genital	14	1	2	6	3	6	3	2	1	5
188-189	Urinary	6	-	-	4	1	5	2	-	-	-
204-208	Leukemia	3	1	1	5	3	3	2	1	-	4
250	Diabetes mellitus	5	-	1	4	1	2	1	2	2	6
390-448	Major cardiovascular	195	61	65	146	38	68	94	46	32	126
390-398	Rheumatic	3	-	-	1	-	-	-	-	-	-
402,404	Hypertensive heart	1	2	-	-	-	1	-	1	-	2
410-414	Ischemic heart	125	31	36	73	20	47	51	21	23	71
420-429	Other heart	16	10	8	27	6	5	15	9	7	16
400-401, & 403	Hypertension	-	-	-	2	-	1	-	1	-	2
430-438	Cerebrovascular	32	14	17	29	11	14	21	9	1	27
440	Arteriosclerosis	6	3	1	6	-	-	4	3	1	7
460-519	Respiratory	27	19	7	21	7	18	11	9	4	18
480-486	Pneumonia	11	8	3	14	6	4	7	2	3	10
487	Influenza	-	-	-	1	-	3	1	-	-	2
490-491	Bronchitis	-	-	1	-	-	1	-	-	-	-
492	Emphysema	5	4	-	1	1	-	-	1	-	2
493	Asthma	-	1	-	1	-	-	-	-	-	-
531-533	Ulcer of stomach and duodenum	1	-	-	3	-	2	-	-	-	1
550-553, & 560	Hernia & intestinal obstruction	2	-	-	1	-	-	-	-	-	1
571	Chronic liver disease and cirrhosis	6	3	-	3	1	-	2	2	-	2
580-589	Nephritis, Nephrotic syndrome & nephrosis	3	2	-	4	3	2	-	1	-	3
590	Kidney infection	2	-	1	1	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	-	2	2	-	-	-	1	-	1
760-779	Infant mortality	8	2	-	4	2	1	2	1	-	2
780-799	Ill-defined	5	1	-	10	1	-	2	1	-	-
Residual	Other diseases	18	5	7	27	8	12	5	6	1	14
E800-949	Accidents	16	5	10	22	7	8	2	8	1	13
E810-825	Motor vehicle	12	3	6	15	5	4	2	3	1	7
E880-888	Accidental falls	1	-	2	1	-	1	-	2	-	3
E950-959	Suicide	2	-	2	5	-	5	1	3	1	3
E960-978	Homicide & legal intervention	-	-	1	1	-	-	-	1	-	-
E980-999	Other violent deaths	1	1	-	-	-	-	-	-	-	-

Table 33
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

		Lincoln	Lyon	McLeod	Mahnomen	Marshall	Martin	Meeker	Mille Lacs	Morrison	Mower
Deaths - Total		118	221	224	72	119	263	215	199	297	374
Rate:	Age & sex adjusted	9.6	8.0	6.5	10.9	7.3	8.0	8.1	8.2	8.8	7.2
Rate:	Sex adjusted-age specific										
	Under 5 years	1.7	2.9	1.2	6.4	2.6	3.2	1.2	2.5	1.9	1.4
	5-14 years	-	0.3	0.2	-	-	-	-	1.0	0.2	-
	15-24 years	1.6	1.3	0.8	1.2	0.9	1.7	1.4	1.6	1.4	0.7
	25-44 years	1.2	1.5	0.5	4.4	-	1.2	1.4	1.1	1.2	1.3
	45-64 years	8.0	5.9	6.0	7.4	9.4	5.6	8.3	5.9	10.2	7.1
	65 years and over	62.5	50.8	42.4	64.6	44.2	51.8	49.7	51.9	52.7	44.8
Sex:	Male	59	108	139	34	74	146	122	121	176	191
	Female	59	113	85	38	45	117	93	78	121	183
Race:	White	118	220	224	62	119	262	213	191	297	373
	Black	-	-	-	-	-	-	-	-	-	1
	Indian	-	-	-	10	-	-	1	8	-	-
	Other & Unknown	-	1	-	-	-	1	1	-	-	-
ICDA**	CAUSE OF DEATH										
001-139	Infective-parasitic	1	2	2	1	-	2	-	-	1	2
010-018	Tuberculosis	-	-	-	-	-	1	-	-	1	-
140-208	Neoplasms-malignant	22	48	40	15	24	55	38	47	53	70
150-159	Digestive	3	19	12	2	5	13	12	12	18	20
160-165	Respiratory	4	8	6	4	7	12	6	12	7	16
174-175	Breast	1	2	2	1	-	7	5	1	2	3
179-187	Genital	4	7	7	5	5	10	2	8	3	14
188-189	Urinary	2	2	2	-	2	2	2	1	4	3
204-208	Leukemia	2	3	5	1	-	4	2	2	1	4
250	Diabetes mellitus	2	6	5	2	2	4	4	2	2	3
390-448	Major cardiovascular	65	115	135	40	67	138	109	88	161	218
390-398	Rheumatic	-	-	-	-	2	-	-	-	1	3
402,404	Hypertensive heart	-	2	2	1	-	1	2	-	5	1
410-414	Ischemic heart	34	58	75	19	37	87	54	46	76	98
420-429	Other heart	9	13	17	4	18	6	15	10	33	73
400-401, & 403	Hypertension	1	1	1	-	-	1	-	-	-	1
430-438	Cerebrovascular	18	30	19	9	8	36	26	22	34	35
440	Arteriosclerosis	2	9	18	5	-	5	9	5	4	2
460-519	Respiratory	10	13	9	4	6	22	21	24	22	20
480-486	Pneumonia	6	3	3	3	2	10	16	13	10	10
487	Influenza	-	1	-	-	-	1	1	-	-	-
490-491	Bronchitis	-	-	-	-	-	-	-	-	-	2
492	Emphysema	-	2	-	-	-	2	2	2	4	1
493	Asthma	-	1	2	-	-	-	-	1	-	-
531-533	Ulcer of stomach and duodenum	1	2	1	-	-	1	-	-	1	-
550-553, & 560	Hernia & intestinal obstruction	-	-	-	-	2	-	1	-	-	1
571	Chronic liver disease and cirrhosis	-	2	-	-	3	1	1	-	5	2
580-589	Nephritis, nephrotic syndrome & nephrosis	2	-	1	-	-	2	3	1	1	3
590	Kidney infection	-	-	-	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	1	3	1	-	-	4	1	4	4	2
760-779	Infant mortality	-	3	1	1	2	2	1	1	2	-
780-799	Ill-defined	1	1	2	-	-	2	2	3	1	3
Residual	Other diseases	5	11	11	3	5	13	13	15	22	30
E800-949	Accidents	8	12	11	5	7	16	17	13	21	17
E810-825	Motor vehicle	4	4	5	3	5	9	9	6	11	6
E880-888	Accidental falls	-	3	4	1	-	3	3	2	2	3
E950-959	Suicide	-	2	4	1	1	1	4	1	1	3
E960-978	Homicide & legal intervention	-	1	-	-	-	-	-	-	-	-
E980-999	Other violent deaths	-	-	1	-	-	-	-	-	-	-

Table 33
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

		Murray	Nicollet	Nobles	Norman	Olmsted	Otter Tail	Penn-ington	Pine	Pipe-stone	Polk
DEATHS - Total		84	168	193	134	560	585	146	209	139	364
Rate:	Age & sex adjusted	5.7	6.9	7.2	9.2	7.3	7.9	8.2	8.5	8.4	8.5
Rate:	Sex adjusted-age specific										
	Under 5 years	2.2	4.7	3.1	2.8	2.5	2.2	4.0	3.0	4.5	2.3
	5-14 years	-	-	1.2	-	0.2	0.5	-	0.3	0.6	-
	15-24 years	2.2	0.8	1.3	1.4	1.3	1.3	0.3	1.2	0.9	0.4
	25-44 years	0.4	1.0	1.6	1.0	1.4	1.0	1.3	1.6	0.8	2.4
	45-64 years	5.9	6.2	6.5	10.6	5.5	7.1	7.3	8.5	8.8	6.7
	65 years and over	33.6	42.2	41.5	55.1	46.6	49.9	52.4	50.8	50.5	53.9
Sex:	Male	50	93	116	67	271	331	80	127	71	199
	Female	34	75	77	67	289	254	66	82	68	165
Race:	White	84	166	193	134	558	582	146	204	137	361
	Black	-	1	-	-	2	1	-	1	-	-
	Indian	-	1	-	-	-	1	-	4	1	3
	Other & Unknown	-	-	-	-	-	1	-	-	1	-
ICDA**	CAUSE OF DEATH										
001-139	Infective-parasitic	1	2	1	-	3	6	-	1	-	3
010-018	Tuberculosis	-	-	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	18	26	54	24	145	119	23	38	26	51
150-159	Digestive	6	9	10	6	37	34	9	10	8	16
160-165	Respiratory	2	2	14	2	24	12	3	9	7	9
174-175	Breast	-	3	5	4	15	16	4	2	3	4
179-187	Genital	2	2	7	2	22	20	5	6	2	6
188-189	Urinary	1	2	2	1	8	4	-	2	3	3
204-208	Leukemia	1	2	2	1	12	7	1	4	1	2
250	Diabetes mellitus	3	1	-	2	8	7	-	4	6	8
390-448	Major cardiovascular	44	92	87	80	252	302	85	114	73	223
390-398	Rheumatic	-	-	-	-	2	4	-	-	1	2
402,404	Hypertensive heart	2	1	1	-	5	3	-	1	2	9
410-414	Ischemic heart	29	55	51	52	141	178	50	66	32	112
420-429	**Other heart**	3	9	15	6	35	36	10	8	17	41
400-401, & 403	Hypertension	1	1	2	-	4	-	-	-	-	-
430-438	Cerebrovascular	6	22	14	17	50	66	18	23	15	38
440	Arteriosclerosis	3	3	2	1	7	5	4	11	5	17
460-519	Respiratory	3	11	17	10	38	48	18	17	11	23
480-486	Pneumonia	-	5	5	6	19	26	9	5	3	5
487	Influenza	-	3	-	1	-	5	1	1	1	1
490-491	Bronchitis	-	1	-	-	3	1	-	1	-	1
492	Emphysema	1	-	2	1	3	2	1	2	3	1
493	Asthma	-	-	-	-	.1	2	1	-	1	-
531-533	Ulcer of stomach and duodenum	1	-	-	2	-	2	-	-	-	1
550-553, & 560	Hernia & intestinal obstruction	1	1	-	2	-	1	-	-	-	3
571	Chronic liver disease and cirrhosis	-	1	2	1	2	5	2	2	1	1
580-589	Nephritis, nephrotic syndrome & nephrosis	2	-	4	-	-	6	2	-	2	1
590	Kidney infection	-	-	-	-	1	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	3	2	-	12	1	4	2	1	3
760-779	Infant mortality	1	5	1	2	5	2	1	-	1	1
780-799	Ill-defined	1	2	-	-	12	5	2	4	5	3
Residual	Other diseases	5	6	11	6	31	43	6	9	5	17
E800-949	Accidents	4	16	11	4	41	35	2	16	8	24
E810-825	Motor vehicle	2	7	5	3	28	13	1	4	3	13
E880-888	Accidental falls	-	7	1	1	3	4	1	3	-	6
E950-959	Suicide	-	2	2	1	6	3	1	-	-	1
E960-978	Homicide & legal intervention	-	-	1	-	2	-	-	2	-	1
E980-999	Other violent deaths	-	-	-	-	2	-	-	-	-	-

Table 33
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

		Pope	Ramsey	St. Paul	Red Lake	Redwood	Renville	Rice	Rock	Roseau	St. Louis
DEATHS - Total		153	3,894	2,871	50	232	245	379	76	134	2,261
Rate:	Age & sex adjusted	8.9	8.7	9.2	6.9	8.6	8.6	8.5	5.6	8.7	9.1
Rate:	Sex adjusted-age specific										
	Under 5 years	3.3	2.9	3.2	2.2	2.0	3.2	2.0	–	2.8	2.4
	5-14 years	0.6	0.2	0.2	–	0.6	0.3	0.4	0.6	0.9	0.2
	15-24 years	2.2	0.8	0.8	1.0	1.2	1.2	1.2	1.2	1.4	1.2
	25-44 years	1.6	1.3	1.6	–	1.6	1.3	1.7	0.8	1.3	1.4
	45-64 years	7.4	8.4	9.9	6.8	5.4	6.0	7.5	3.5	6.4	9.7
	65 years and over	53.9	54.4	55.1	44.7	57.1	56.6	53.1	37.8	55.3	55.3
Sex:	Male	92	1,983	1,446	39	118	143	193	44	78	1,231
	Female	61	1,911	1,425	11	114	102	186	32	56	1,030
Race:	White	153	3,753	2,736	50	231	245	378	75	133	2,242
	Black	–	111	107	–	–	–	1	–	–	2
	Indian	–	13	12	–	1	–	–	–	1	12
	Other & Unknown	–	17	16	–	–	–	–	1	–	5
ICDA**	CAUSE OF DEATH										
001-139	Infective-parasitic	–	26	15	–	3	–	4	–	2	15
010-018	Tuberculosis	–	1	1	–	–	–	–	–	–	1
140-208	Neoplasms-malignant	30	879	646	11	43	46	84	16	29	439
150-159	Digestive	10	240	190	1	12	18	32	1	3	121
160-165	Respiratory	6	182	127	5	6	8	13	4	5	100
174-175	Breast	1	72	47	1	5	3	8	–	2	40
179-187	Genital	5	103	80	1	3	2	11	4	5	51
188-189	Urinary	3	44	36	1	4	2	4	–	–	20
204-208	Leukemia	–	41	23	–	5	1	4	2	2	15
250	Diabetes mellitus	–	67	47	1	4	4	6	–	2	37
390-448	Major cardiovascular	77	1,974	1,468	26	141	143	207	49	75	1,202
390-398	Rheumatic	1	19	11	–	–	1	2	2	2	8
402,404	Hypertensive heart	–	17	14	2	5	2	5	2	1	25
410-414	Ischemic heart	51	1,132	846	15	73	79	102	27	50	671
420-429	Other heart	7	249	170	1	18	20	38	3	7	225
400-401, & 403	Hypertension	2	17	12	–	2	–	2	–	–	7
430-438	Cerebrovascular	14	376	297	8	33	37	46	12	11	191
440	Arteriosclerosis	1	79	51	–	4	3	8	1	1	32
460-519	Respiratory	14	247	187	1	13	16	23	4	6	170
480-486	Pneumonia	7	107	75	–	9	7	10	2	3	101
487	Influenza	–	–	–	–	1	1	1	–	–	7
490-491	Bronchitis	–	5	4	–	–	1	–	–	–	1
492	Emphysema	2	27	21	–	–	–	2	1	–	10
493	Asthma	–	5	4	–	–	–	1	–	1	3
531-533	Ulcer of stomach and duodenum	1	20	14	1	–	–	–	–	2	5
550-553, & 560	Hernia & intestinal obstruction	1	9	5	1	1	1	1	–	1	6
571	Chronic liver disease and cirrhosis	1	44	38	–	2	–	–	1	–	31
580-589	Nephritis, nephrotic syndrome & nephrosis	5	29	23	3	1	6	–	1	–	12
590	Kidney infection	–	2	2	–	–	–	–	–	–	3
630-676	Pregnancy, childbirth & puerperium	–	–	–	–	–	–	–	–	–	–
740-759	Congenital anomalies	1	40	31	–	1	–	5	–	–	9
760-779	Infant mortality	–	30	20	–	1	3	1	–	3	18
780-799	Ill-defined	5	79	60	2	1	2	4	–	1	29
Residual	Other diseases	4	234	179	2	6	12	23	2	5	142
E800-949	Accidents	12	143	88	2	15	11	14	3	7	98
E810-825	Motor vehicle	4	64	40	1	8	5	8	–	4	50
E880-888	Accidental falls	1	26	20	1	4	3	–	–	–	15
E950-959	Suicide	2	46	30	–	–	1	7	–	1	39
E960-978	Homicide & legal intervention	–	20	14	–	–	–	–	–	–	2
E980-999	Other violent deaths	–	5	4	–	–	–	–	–	–	4

Table 33
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

		Duluth	Scott	Sher-burne	Sibley	Stearns	Steele	Stevens	Swift	Todd	Traverse
DEATHS - Total		1,118	226	205	138	636	261	111	124	239	74
Rate:	Age & sex adjusted	10.1	7.5	9.4	6.7	6.7	8.1	8.6	7.1	7.6	8.4
Rate:	Sex adjusted-age specific										
	Under 5 years	3.7	1.6	2.9	3.2	3.1	3.1	7.0	0.9	4.5	-
	5-14 years	0.3	0.1	-	-	0.3	0.2	-	1.0	0.9	-
	15-24 years	1.0	0.5	1.0	1.2	0.9	0.7	1.0	1.9	0.9	2.3
	25-44 years	1.3	1.0	0.6	1.1	1.0	0.9	1.3	1.8	0.9	-
	45-64 years	11.8	5.2	8.3	3.4	6.3	6.4	7.7	6.7	6.4	10.9
	65 years and over	60.0	51.5	62.3	45.2	41.4	53.4	51.8	40.9	47.2	50.7
Sex:	Male	566	115	99	75	379	148	66	75	127	38
	Female	552	111	106	63	257	113	45	49	112	36
Race:	White	1,109	224	204	138	634	261	111	124	238	74
	Black	2	-	1	-	2	-	-	-	-	-
	Indian	3	2	-	-	-	-	-	-	-	-
	Other & Unknown	4	-	-	-	-	-	-	-	1	-
ICDA**	CAUSE OF DEATH										
001-139	Infective-parasitic	6	1	1	3	5	-	1	1	3	-
010-018	Tuberculosis	1	-	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	219	48	39	29	130	49	22	25	44	25
150-159	Digestive	63	19	11	4	35	14	8	6	13	8
160-165	Respiratory	49	11	6	6	30	12	2	3	6	6
174-175	Breast	21	4	2	1	9	5	-	1	5	5
179-187	Genital	33	5	5	7	17	5	1	4	4	1
188-189	Urinary	9	3	4	5	4	1	3	2	3	1
204-208	Leukemia	4	2	4	1	4	1	1	3	4	-
250	Diabetes mellitus	15	7	3	2	11	3	3	1	2	1
390-448	Major cardiovascular	608	113	120	68	317	153	57	71	127	31
390-398	Rheumatic	4	-	1	-	6	-	-	-	1	-
402,404	Hypertensive heart	15	-	2	-	7	1	-	4	3	-
410-414	Ischemic heart	328	68	66	38	187	82	25	39	72	20
420-429	Other heart	127	12	17	4	39	28	17	11	19	5
400-401, & 403	Hypertension	4	2	2	-	4	-	1	-	1	-
430-438	Cerebrovascular	97	24	23	21	48	29	12	12	18	5
440	Arteriosclerosis	14	4	5	3	16	11	2	2	6	-
460-519	Respiratory	84	15	15	5	35	12	3	5	15	4
480-486	Pneumonia	58	10	8	2	19	8	-	3	9	1
487	Influenza	1	-	1	-	-	-	-	-	-	1
490-491	Bronchitis	-	-	-	-	-	1	-	-	-	-
492	Emphysema	6	1	2	-	4	-	1	-	-	-
493	Asthma	1	-	-	1	1	1	1	-	-	-
531-533	Ulcer of stomach and duodenum	3	4	-	-	2	1	-	1	3	-
550-553, & 560	Hernia & intestinal obstruction	2	-	-	1	1	1	-	-	-	-
571	Chronic liver disease and cirrhosis	11	3	1	-	7	2	3	1	1	-
580-589	Nephritis, nephrotic syndrome & nephrosis	5	2	-	2	8	-	1	1	7	1
590	Kidney infection	-	-	1	-	-	1	1	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	8	2	4	1	5	2	1	-	2	-
760-779	Infant mortality	9	1	1	2	12	5	3	-	6	-
780-799	Ill-defined	19	4	1	7	10	2	5	1	4	1
Residual	Other diseases	68	8	8	11	37	18	4	9	18	1
E800-949	Accidents	44	16	7	6	48	10	6	7	6	9
E810-825	Motor vehicle	20	7	4	3	31	2	3	2	4	5
E880-888	Accidental falls	7	1	-	1	3	3	1	3	-	2
E950-959	Suicide	15	2	2	1	7	2	1	-	-	1
E960-978	Homicide & legal intervention	1	-	1	-	-	-	-	-	-	-
E980-999	Other violent deaths	1	-	1	-	1	-	-	1	1	-

Table 33

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1980 (CONT.)

		Wab-asha	Wadena	Waseca	Wash-ington	Waton-wan	Wilkin	Winona	Wright	Yellow Medicine	Un-known
DEATHS - Total		205	160	162	565	136	72	445	404	160	3
Rate:	Age & sex adjusted	8.6	8.7	7.8	8.2	7.9	6.8	8.9	7.7	8.3	-
Rate:	Sex adjusted-age specific										
	Under 5 years	1.3	1.8	2.4	2.6	1.0	1.6	3.1	2.3	0.9	-
	5-14 years	-	-	-	0.3	-	0.7	0.3	0.1	0.5	-
	15-24 years	1.5	0.8	0.5	1.3	2.5	1.7	0.7	0.8	0.8	-
	25-44 years	1.6	1.0	0.4	1.1	0.7	0.5	1.1	1.3	2.4	-
	45-64 years	7.7	9.8	6.2	6.6	7.9	7.0	9.2	7.8	7.4	-
	65 years and over	54.0	53.8	53.5	53.0	49.0	40.8	54.8	47.7	50.7	-
Sex:	Male	125	86	87	317	73	46	230	230	90	2
	Female	80	74	75	248	63	26	215	174	70	1
Race:	White	205	160	161	559	136	71	445	404	160	1
	Black	-	-	-	2	-	-	-	-	-	1
	Indian	-	-	-	1	-	-	-	-	-	-
	Other & Unknown	-	-	1	3	-	1	-	-	-	1
ICDA**	CAUSE OF DEATH										
001-139	Infective-parasitic	2	1	1	3	2	-	4	3	2	-
010-018	Tuberculosis	-	-	-	1	-	-	-	-	-	-
140-208	Neoplasms-malignant	46	36	36	120	35	16	93	80	37	-
150-159	Digestive	12	10	11	29	11	5	21	20	8	-
160-165	Respiratory	12	4	4	29	5	-	20	19	7	-
174-175	Breast	3	7	3	12	6	1	10	13	5	-
179-187	Genital	4	5	7	10	5	3	15	7	4	-
188-189	Urinary	2	1	4	4	3	-	6	3	2	-
204-208	Leukemia	2	1	2	5	1	2	5	3	3	-
250	Diabetes mellitus	3	4	1	9	3	2	-	5	2	-
390-448	Major cardiovascular	95	84	93	259	76	34	227	214	85	-
390-398	Rheumatic	2	-	-	3	-	-	3	4	-	-
402,404	Hypertensive heart	-	1	1	1	1	-	4	3	6	-
410-414	Ischemic heart	53	50	50	158	51	24	110	113	49	-
420-429	Other heart	17	15	24	38	4	3	47	45	14	-
400-401, & 403	Hypertension	-	-	1	5	-	1	3	1	-	-
430-438	Cerebrovascular	17	14	10	37	17	6	41	36	12	-
440	Arteriosclerosis	3	4	4	5	2	-	9	9	3	-
460-519	Respiratory	25	12	7	51	2	4	41	33	9	-
480-486	Pneumonia	10	3	1	24	1	2	23	25	4	-
487	Influenza	1	2	1	-	-	-	1	2	1	-
490-491	Bronchitis	-	-	-	1	-	-	-	-	-	-
492	Emphysema	2	2	1	2	-	1	-	3	-	-
493	Asthma	1	-	-	2	-	-	-	-	1	-
531-533	Ulcer of stomach and duodenum	2	-	-	1	1	1	1	1	-	-
550-553, & 560	Hernia & intestinal obstruction	-	-	-	1	2	-	1	-	1	-
571	Chronic liver disease and cirrhosis	-	2	-	7	1	1	1	6	-	-
580-589	Nephritis, nephrotic syndrome & nephrosis	-	1	1	2	1	1	4	-	2	-
590	Kidney infection	-	-	-	1	-	-	2	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	-	2	9	-	-	3	3	1	-
760-779	Infant mortality	2	2	2	9	1	1	1	3	-	-
780-799	Ill-defined	-	5	1	7	-	-	5	7	-	-
Residual	Other diseases	14	10	7	26	5	4	32	18	12	-
E800-949	Accidents	13	2	10	50	6	8	21	28	5	1
E810-825	Motor vehicle	7	-	4	35	3	3	7	18	4	-
E880-888	Accidental falls	3	-	3	3	1	1	7	3	-	-
E950-959	Suicide	1	1	-	6	-	-	8	2	4	-
E960-978	Homicide & legal intervention	-	-	1	3	1	-	1	1	-	-
E980-999	Other violent deaths	2	-	-	1	-	-	-	-	-	2

* As of the 1970 Census

† Includes unknown sex

** For detailed causes see pages 29-33

Marriage and Divorce

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Table 34
MARRIAGES, DIVORCES, AND ANNULMENTS BY COUNTY OF OCCURRENCE
MINNESOTA, 1980

County	Marriages	Divorces	Annulments	Unknown Divorce or Annulment
State Total	37,625	15,092	31	151
Aitkin	87	45	-	-
Anoka	1,416	978	-	3
Becker	230	100	1	-
Beltrami	348	146	-	2
Benton	108	-	-	-
Big Stone	57	9	-	-
Blue Earth	564	157	-	6
Brown	243	49	-	-
Carlton	281	146	-	2
Carver	314	144	-	-
Cass	114	68	-	-
Chippewa	117	24	-	-
Chisago	204	88	-	-
Clay	615	175	-	-
Clearwater	104	12	-	2
Cook	34	23	-	-
Cottonwood	110	47	-	-
Crow Wing	414	184	1	-
Dakota	998	889	2	14
Dodge	114	38	-	-
Douglas	251	84	-	-
Faribault	159	59	1	1
Fillmore	168	71	-	-
Freeborn	398	133	-	-
Goodhue	302	120	-	-
Grant	41	11	-	2
Hennepin	10,948	4,596	12	1
Houston	164	74	-	1
Hubbard	123	61	-	3
Isanti	161	57	-	-
Itasca	383	191	-	2
Jackson	120	27	-	-
Kanabec	123	53	-	-
Kandiyohi	318	121	-	-
Kittson	54	11	-	-
Koochiching	176	90	-	-
Lac Qui Parle	56	15	1	5
Lake	113	36	-	-
Lake of the Woods	23	-	-	-
Le Sueur	125	43	-	-
Lincoln	53	7	-	-
Lyon	262	69	1	-
McLeod	242	74	-	-
Mahnomen	35	10	-	-
Marshall	96	-	-	-
Martin	186	70	-	1
Meeker	147	46	-	3
Mille Lacs	178	33	1	6
Morrison	245	75	2	-
Mower	363	117	-	-
Murray	101	21	-	-
Nicollet	176	-	-	-
Nobles	206	48	-	2
Norman	49	22	-	1
Olmsted	1,013	405	-	-
Otter Tail	343	129	-	-
Pennington	168	87	-	-
Pine	215	72	-	-
Pipestone	126	29	-	1
Polk	343	86	-	11
Pope	75	23	-	-
Ramsey	4,412	1,876	8	8
Red Lake	49	11	-	-
Redwood	170	32	-	-
Renville	147	30	-	-
Rice	347	159	-	-
Rock	123	-	-	-
Roseau	112	30	-	2
St. Louis	2,137	662	-	65
Scott	433	153	-	1
Sherburne	176	104	-	-
Sibley	95	47	-	-
Stearns	1,118	202	-	-
Steele	276	114	-	-
Stevens	97	24	1	-
Swift	77	26	-	-
Todd	162	49	-	-
Traverse	47	-	-	-
Wabasha	169	49	-	-
Wadena	170	7	-	-
Waseca	144	66	-	2
Washington	744	464	-	-
Watonwan	106	43	-	-
Wilkin	80	23	-	1
Winona	437	114	-	3
Wright	395	183	-	-
Yellow Medicine	102	26	-	-
Unknown	-	-	-	-

Table 35
MARRIAGES OCCURRING IN MINNESOTA BY RACE OF BRIDE AND GROOM, 1980

	GROOM								
BRIDE	TOTAL	WHITE	BLACK	INDIAN	CHINESE	JAPANESE	OTHER* ASIAN	OTHER	UNKNOWN
TOTAL	37,625	33,233	626	231	29	14	422	24	3,046
WHITE	33,235	32,578	214	104	10	8	45	18	258
BLACK	414	32	368	2	-	-	2	-	10
INDIAN	233	95	8	120	-	-	2	1	7
CHINESE	27	10	-	-	16	-	-	-	1
JAPANESE	17	11	-	-	-	4	-	-	2
OTHER* ASIAN	420	40	4	-	2	1	367	1	5
OTHER	25	21	-	-	-	-	1	1	2
UNKNOWN	3,254	446	32	5	1	1	5	3	2,761

* Includes Pacific Islanders

Table 36
MARRIAGES OCCURRING IN MINNESOTA BY AGE OF BRIDE AND GROOM, 1980

	Groom's Age													
Bride's Age	Total	Under 18	18-19	20	21-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 & Over	Un-known*
Total	37,625	-	2,598	2,796	13,139	9,397	4,131	1,934	1,102	752	560	420	302	490	4
Under 18	934	-	407	201	271	44	11	-	-	-	-	-	-	-	-
18-19	6,491	-	1,645	1,365	2,756	576	104	22	12	8	-	2	1	-	-
20	3,895	-	319	658	2,195	575	119	21	4	2	1	-	1	-	-
21-24	12,787	-	180	505	6,749	4,087	942	238	56	15	8	4	1	1	1
25-29	6,892	-	34	50	1,003	3,312	1,689	519	175	73	17	13	5	2	-
30-34	2,833	-	7	12	140	654	972	589	275	104	58	17	3	2	-
35-39	1,337	-	4	3	19	110	232	382	290	159	92	25	12	9	-
40-44	799	-	-	-	4	25	47	117	199	202	119	62	16	8	-
45-49	496	-	-	-	-	4	13	35	70	123	129	77	32	13	-
50-54	350	-	1	-	1	3	1	11	13	48	87	102	50	33	-
55-59	266	-	-	-	1	1	-	-	5	13	34	71	78	63	-
60-64	203	-	-	-	-	1	-	-	-	3	9	34	67	89	-
65 & Over	328	-	-	-	-	-	-	-	2	1	6	12	36	270	1
Unknown*	14	-	1	2	-	5	1	-	1	1	-	1	-	-	2

* Includes age specified as legal

Table 37
MARRIAGES REPORTED IN MINNESOTA BY STATE OF RESIDENCE
1980

State of Residence	Marriages Reported		Percent of Marriages Reported	
	Residence of Bride	Residence of Groom	Residence of Bride	Residence of Groom
Total	37,625	37,625	100.0	100.0
Minnesota*	35,480	33,950	94.3	90.2
Other Areas and Unknown	2,145	3,675	5.7	9.8
Iowa	203	339	0.5	0.9
North Dakota	347	499	0.9	1.3
South Dakota	125	186	0.3	0.5
Wisconsin	528	767	1.4	2.0
Other States	884	1,751	2.3	4.7
U.S. Territories	1	4	0.0	0.0
Other Nations	57	129	0.2	0.3
Unknown	-	-	-	-

* The resident totals are not true resident totals for Minnesota. Information is not available at the present time on the number of Minnesotans who marry in other States.

Table 38
DIVORCES AND ANNULMENTS BY AGE OF HUSBAND AND WIFE
MINNESOTA, 1980

	Husband's Age												
Wife's Age	Total	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 & Over	Unknown
Total	15,274	50	1,770	3,424	3,007	2,089	1,337	882	599	323	157	169	1,467
15-19	287	30	204	35	12	1	1	1	-	-	-	-	3
20-24	2,954	20	1,360	1,224	233	77	15	8	-	1	1	1	14
25-29	3,595	-	170	1,884	1,183	224	76	28	9	6	2	1	12
30-34	2,694	-	21	228	1,400	779	166	60	21	5	5	1	8
35-39	1,790	-	2	32	131	858	559	131	50	12	6	5	4
40-44	1,061	-	3	8	33	105	445	324	99	31	9	1	3
45-49	640	-	1	2	9	24	59	258	200	56	16	10	5
50-54	398	-	1	1	-	8	10	60	172	106	29	11	-
55-59	200	-	-	-	-	3	4	9	35	76	46	27	-
60-64	98	-	-	-	-	-	-	2	5	24	27	39	1
65 & Over	92	-	-	-	-	-	-	-	1	4	15	72	-
Unknown	1,465	-	8	10	6	10	2	1	7	2	1	1	1,417

Occupational Illness and Injury

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Occupational Injuries and Illnesses in Minnesota[1]
1976-1980

Overview

The estimates of occupational injuries and illnesses between 1976 and 1980 reveal that Minnesotans sustained about 260,000 occupational injuries, however only 1,094 of those injuries were fatal. The sex distribution of occupational injuries indicates that about 25 percent were sustained by women and 75 percent by men. Employees in the age cohorts 21-25 and 26-30 absorbed approximately 20 and 16 percent of all injuries, respectively. These proportions were higher than that absorbed by any other age cohort.

Year by year, about 82 percent of the injuries occurred on the premises of work. Also, about 87 percent of the injuries were experienced by persons employed in the private sector. Finally, within a given year, no large differences in the number of injuries occurring each month were encountered. However, fewer injuries were reported in the months of September and December.

Given this overview, the following description and analysis of occupational injuries and illnesses in Minnesota will focus on the distribution of injuries by industries, occupations, type of accidents, nature of injuries, and parts of the body injured. For the purpose of this analysis occupations will refer to major job functions (e.g., sales clerks, nurses, carpenters) and industry will refer to the type of goods and services produced where the job functions are performed (e.g., hospital, bank, creamery). Therefore, an industry may employ persons from more than one occupation and conversely an individual with a given occupation may be employed in several industries.

Occupational Injuries by Industries

The total number of occupational injuries showed a steady increase from 42,221 injuries in 1976 to 61,427 injuries in 1979, then a decline to 51,971 injuries in 1980. This trend could be explained in part by the increase in employment between 1976 and 1979 along with the increase in rate of injuries.

Manufacturing accounted for about 34 percent of all occupational injuries. Wholesale and retail trades and service workers experienced

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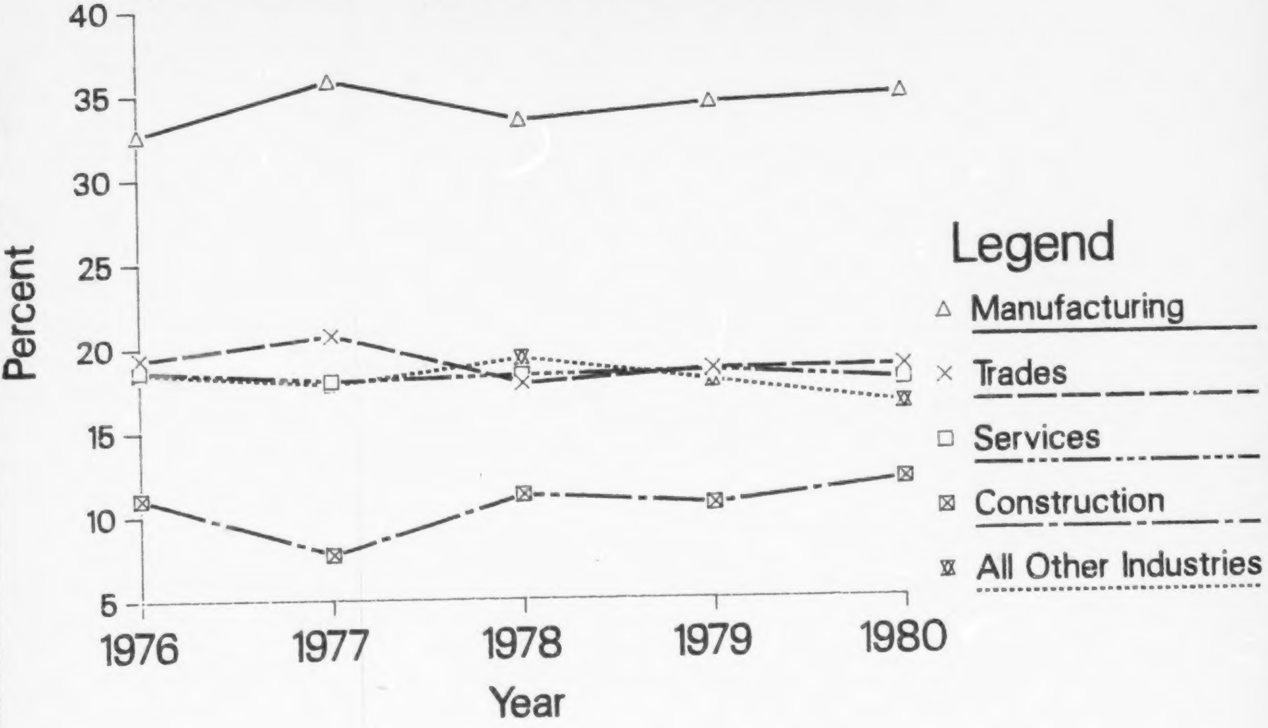
[1] All data were collected and basic analysis performed by the Minnesota Department of Labor and Industry. MCHS performed secondary analysis of these data and is solely responsible for the observations and conclusions reported here.

Figure 20

Distribution of Occupational Injuries and Illnesses by Industrial Categories, Minnesota 1976-1980



approximately 19.0 and 18.3 percent of total injuries, respectively. The construction and public administration sectors showed large fluctuations in the percent of injuries absorbed by each industry. The percentage of injuries experienced by public administration dropped from 5.5 percent in 1976 to 2.7 percent in 1980. On the other hand, the percentage of total injuries absorbed by construction workers increased from 7.7 percent in 1977 to 12.0 percent in 1980.

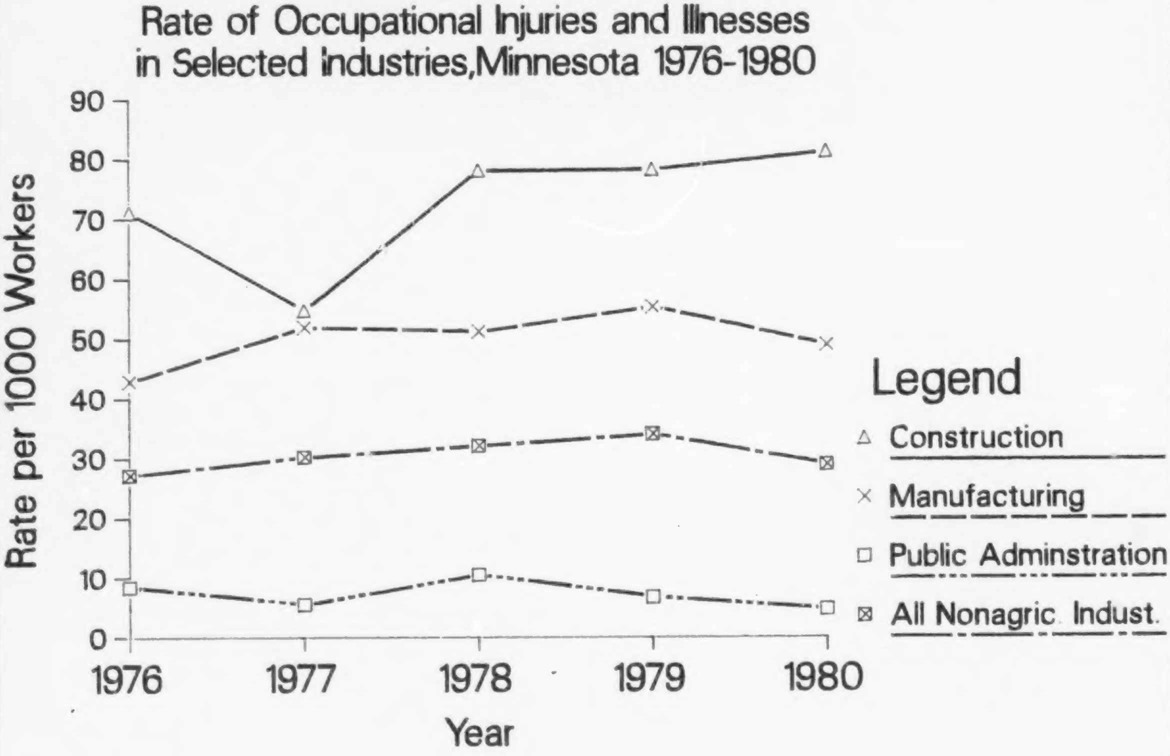
Each of the agriculture, forestry, and fisheries, mining, and finance, insurance and real estate accounted for less than 2.0 percent of total injuries per year.

Rate of Injuries and Employment

In this analysis, occupational injury and illness rates were calculated by dividing the number of estimated injuries for an industrial category by the average annual employment and are reported as rate per 1,000 workers. The source of data for the average annual employment in nonagricultural industries was the Minnesota Department of Economic Security.

During 1976-1980 occupational injury rates ranged from 81.3 events per 1,000 workers for construction to 4.7 for public administration. The overall rates of injuries for nonagricultural major industrial categories exhibited an increase from 27.1 in 1976 to 34.0 in 1979, then declined to 28.9 in 1980. It should be noted that the agricultural industry was excluded from this analysis because most agricultural production workers (i.e., farmers and farm managers) are self employed and do not participate in an unemployment insurance program. Therefore, the survey of first reports of illness and injury does not typically include events occurring in production agriculture.

Figure 21

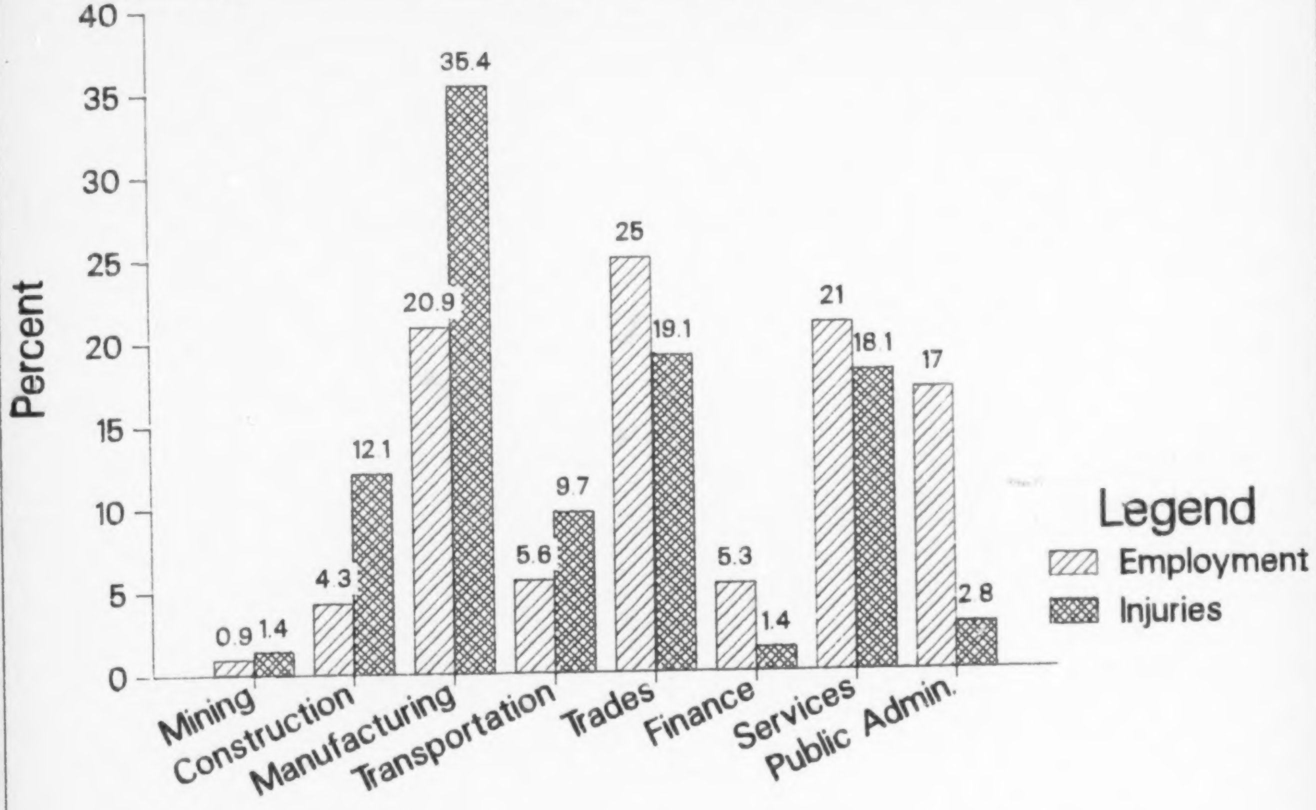


With the exception of the transportation and public utilities industrial category, the rates of injuries experienced by the goods-producing industries (mining; construction; and manufacturing) were higher each year than those experienced by service-producing industries (wholesale and retail trade; finance, insurance and real estate; services; and public administration). In fact, the estimated rate for each of the goods-producing industrial categories (including one service producing industry--transportation and public utilities) were higher than the overall rate for all nonagriculture industries. Conversely, the rates for each of the service-producing industrial categories were lower than the overall rate for nonagriculture industries.

The occupational injuries and illnesses were unevenly distributed when compared to employment by industrial categories. While each of the manufacturing and services industrial divisions contained 21 percent of total employment in 1980, the percentages of injuries absorbed by these industries were 35.4 and 18.1 percent, respectively. Public administration employed 17 percent of the nonagricultural workers and experienced 2.8 percent of the total injuries in 1980.

Figure 22

Distribution of Employment and Occupational Injuries by Nonagricultural Industrial Categories,Minnesota 1980



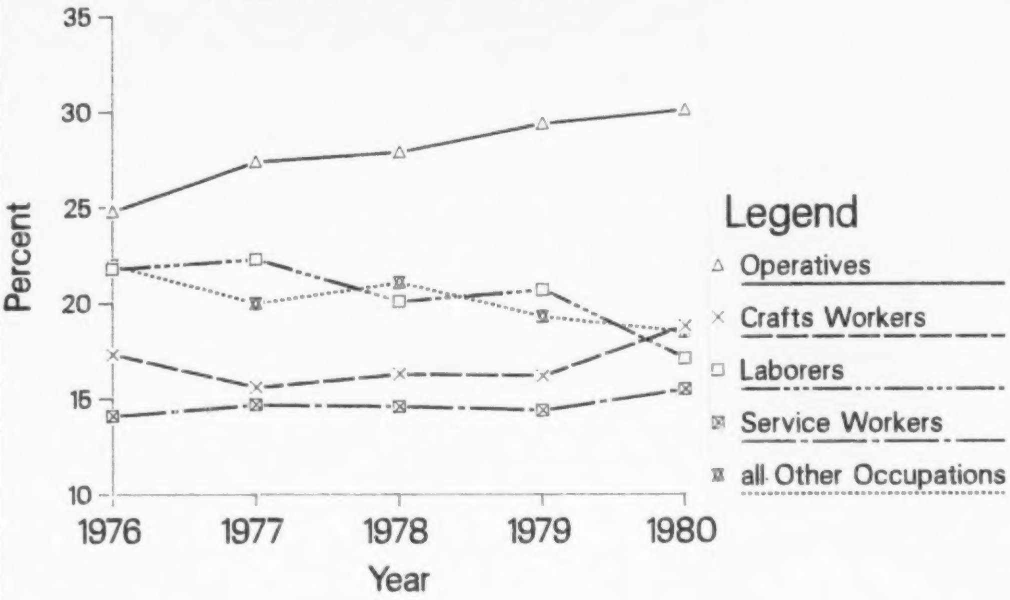
Occupational Injuries by Occupations

During 1976-1980, operatives and laborers sustained about 48 percent of total occupational injuries and illnesses; in contrast, clerical and sales workers sustained only 5.8 percent of occupational injuries. Crafts and service workers experienced approximately 17 and 14.6 percent of total injuries, respectively. Professionals and technical workers, and managers and administrators absorbed a moderate 7.7 percent of all occupational injuries.

Operative workers categories showed the largest percentage of increase in occupational injuries between 1976 and 1980. The percentage of injuries absorbed by operative workers increased from 24.8 percent in 1976 to 30.1 percent in 1980. On the other hand, the percentage of injuries absorbed by laborers exhibited a yearly fluctuation; the percentage ranged from a high of 22.3 percent in 1977 to a low of 17.1 percent in 1980.

Figure 23

Occupational Injuries and Illnesses by Selected Occupational Categories,Minnesota 1976-1980

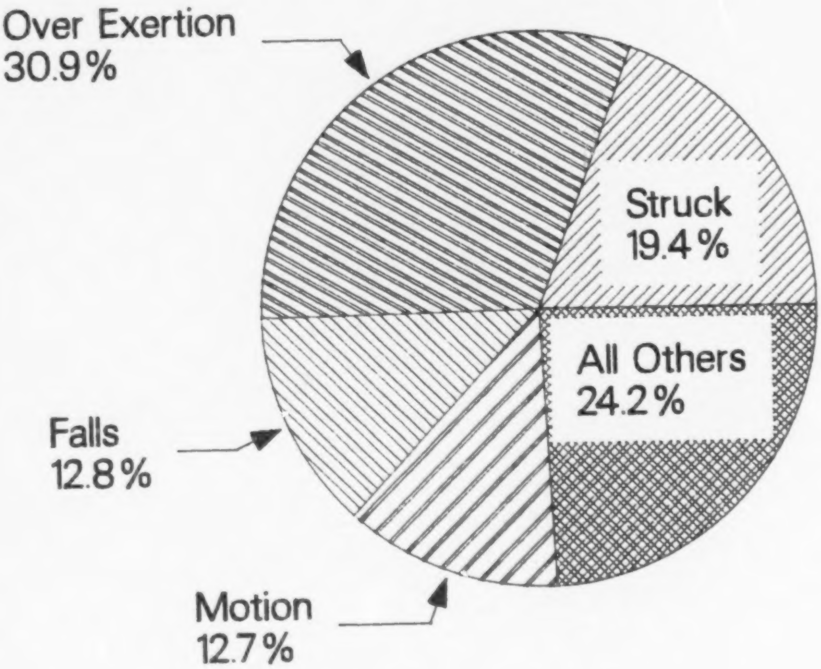


Type of Accidents

Thirteen categories were utilized to classify occupational injuries by type of accidents. Over exertion in lifting, pulling, pushing, holding, wielding, throwing, or carrying caused about 31 percent of the occupational injuries in 1980. The second highest cause of injuries in the same year was being struck against a moving or stationary object, or struck by a falling or flying object. These types of injuries accounted for approximately 20 percent of the total. Both falling and motion actions were among the higher causes of occupational injuries. Less common causes of injuries included: contact with extreme temperature, contact with toxic radiation sources, and motor vehicles; each accounted for about 2 percent of all injury. The fewest number of accidents was caused by the use of public transportation and exposure to noise; both accounted for an estimated 107 injuries in 1980, or less than 0.2 percent of all injury.

Figure 24

Occupational Injuries by Type of Accidents Minnesota, 1980



Nature of Injuries and Illnesses

Table 43 exhibits the number and percent distribution of 33 types of occupational injuries. Nearly 36 percent of the injuries involved sprains, 11 percent were classified as lacerations, about 11 percent were categorized as contusion, and another 7.4 percent were classified as fractures. Dermatitis, chemical burns, and poisoning accounted for approximately 1.0, 0.7, and 0.7 of all occupational injuries and illnesses, respectively. However, because of the high magnitude of missing data for the nature of injuries item (about 18 percent) in the occupational injuries survey, it is not advisable to assume that the distribution of missing data among the 33 classifications of type of injuries follows the same distribution as the remainder of the sample.

Parts of Body Injured

Back injuries accounted for the largest percentage of injuries, exhibiting an increase from 25.6 percent in 1976 to 30.5 percent in 1980. The upper extremities sustained the second highest proportion of all injuries, followed by the lower extremities.

Injuries afflicting the circulatory, digestive, excretory, musculoskeletal, nervous, respiratory and other body stems constitute body system injuries. These systems sustained about 2 percent of total injuries. However, the percent of multiple body-parts injury was estimated to be about 7 percent.

Only minimum yearly variations were observed in the proportions of injury sustained by parts of the body.

Figure 25

Occupational Injuries by Parts of Body Injured
Minnesota, 1980

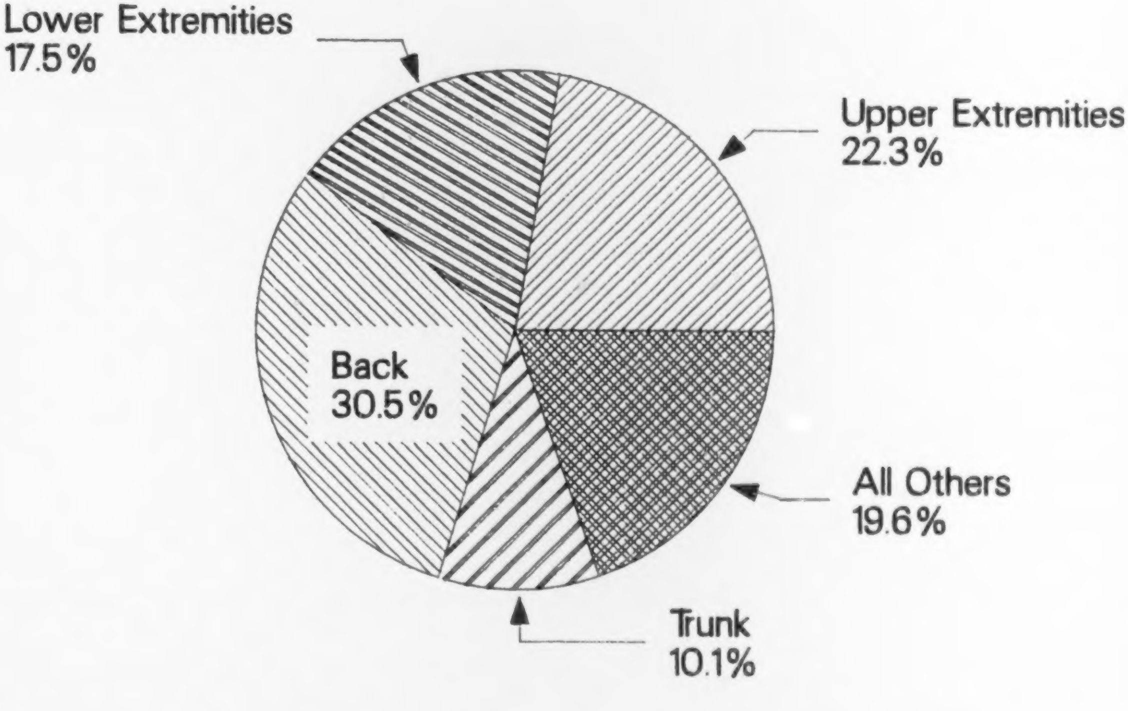


Table 39
ESTIMATED NUMBER OF INJURIES AND ILLNESSES BY MAJOR INDUSTRIAL CATEGORY MINNESOTA, 1976-1980

Industrial Category	Number of Estimated Injuries and Illnesses and Percent of Total for Each Year				
	1976	1977	1978	1979	1980
Agriculture, Forestry and Fisheries	827 (2.0)	738 (1.5)	919 (1.7)	1,151 (1.9)	759 (1.5)
Mining	438 (1.0)	706 (1.4)	914 (1.7)	909 (1.5)	734 (1.4)
Construction	4,642 (11.0)	3,760 (7.7)	6,173 (11.2)	6,513 (10.6)	6,215 (12.0)
Manufacturing	13,753 (32.6)	17,594 (35.8)	18,448 (33.4)	21,113 (34.4)	18,138 (34.9)
Transportation & Public Utilities	3,540 (8.4)	4,833 (9.8)	4,786 (8.7)	5,767 (9.4)	4,973 (9.6)
Wholesale and Retail Trades	8,141 (19.3)	10,182 (20.7)	9,831 (17.8)	11,433 (18.6)	9,705 (18.7)
Finance, Insurance and Real Estate	592 (1.4)	798 (1.6)	837 (1.5)	972 (1.6)	736 (1.4)
Services	7,855 (18.6)	8,827 (18.0)	10,129 (18.3)	11,350 (18.5)	9,286 (17.9)
Public Administration	2,310 (5.5)	1,585 (3.2)	3,065 (5.5)	1,975 (3.2)	1,422 (2.7)
Nonclassified Industries	123 (0.3)	121 (0.2)	155 (0.3)	244 (0.4)	3 (0.0)
Total	42,221	49,144	55,257	61,427	51,971

Table 40
ANNUAL AVERAGE EMPLOYMENT, PERCENT OF TOTAL EMPLOYMENT AND RATE OF OCCUPATIONAL INJURIES AND ILLNESSES PER 1,000 WORKERS BY INDUSTRIAL CATEGORY
MINNESOTA, 1976-1980

Industrial Category	1976	1977	1978	1979	1980
Mining					
Annual Average Employment	15,000	12,900	16,400	17,300	15,600
Percent	1.0	0.8	1.0	1.0	0.9
Rate of Injuries Per 1,000 Workers	29.2	54.7	55.7	52.5	47.1
Construction					
Annual Average Employment	65,400	68,700	79,000	83,200	76,400
Percent	4.3	4.3	4.7	4.7	4.3
Rate of Injuries Per 1,000 Workers	71.0	54.7	78.1	78.3	81.3
Manufacturing					
Annual Average Employment	321,700	339,300	360,400	381,600	370,900
Percent	21.2	21.2	21.3	21.6	21.0
Rate of Injuries Per 1,000 Workers	42.8	51.9	51.2	55.3	48.9
Transportation and Public Utilities					
Annual Average Employment	89,900	92,400	93,900	100,400	99,800
Percent	5.9	5.8	5.6	5.7	5.6
Rate of Injuries Per 1,000 Workers	39.4	52.3	51.0	57.4	49.8
Wholesale and Retail Trade					
Annual Average Employment	383,500	403,500	426,900	443,100	442,900
Percent	25.2	25.3	25.3	25.1	25.0
Rate of Injuries Per 1,000 Workers	21.2	25.2	23.0	25.8	21.9
Finance, Insurance and Real Estate					
Annual Average Employment	77,900	82,200	86,300	91,500	94,600
Percent	5.1	5.1	5.1	5.2	5.3
Rate of Injuries Per 1,000 Workers	7.6	9.7	9.7	10.6	7.8
Services					
Annual Average Employment	291,500	312,000	333,300	354,400	370,000
Percent	19.2	19.5	19.7	20.1	20.9
Rate of Injuries Per 1,000 Workers	26.9	28.3	30.4	32.0	25.1
Public Administration					
Annual Average Employment	276,000	286,300	292,800	295,600	300,100
Percent	18.1	17.9	17.3	16.7	17.0
Rate of Injuries Per 1,000 Workers	8.4	5.5	10.5	6.7	4.7
Total					
Average Annual Employment	1,520,900	1,597,300	1,689,000	1,767,100	1,770,300
Rate of Injuries Per 1,000 Workers	27.1	30.2	32.1	34.0	28.9

Table 41
ESTIMATED NUMBER OF INJURIES AND ILLNESSES BY MAJOR OCCUPATIONAL CATEGORY MINNESOTA, 1976-1980

Occupational Category	Number of Estimated Injuries and Illnesses and Percent of Total for Each Year				
	1976	1977	1978	1979	1980
Professional and Technical	2,356 (5.6)	2,578 (5.2)	2,804 (5.1)	2,527 (4.1)	2,179 (4.2)
Managers and Administrators	1,354 (3.2)	1,472 (3.0)	1,497 (2.7)	1,962 (3.2)	1,275 (2.5)
Sales Workers	737 (1.7)	981 (2.0)	801 (1.4)	1,041 (1.7)	888 (1.7)
Clerical Workers	1,664 (3.9)	2,123 (4.3)	2,243 (4.1)	2,430 (4.0)	2,271 (4.4)
Crafts Workers	7,292 (17.3)	7,648 (15.6)	9,029 (16.3)	9,947 (16.2)	9,772 (18.8)
Operatives	10,473 (24.8)	13,446 (27.4)	15,415 (27.9)	18,102 (29.4)	15,655 (30.1)
Laborers	9,187 (21.8)	10,940 (22.3)	11,089 (20.1)	12,718 (20.7)	8,876 (17.1)
Farmers	458 (1.1)	382 (0.8)	411 (0.7)	441 (0.7)	436 (0.8)
Service Workers	5,971 (14.1)	7,245 (14.7)	8,063 (14.6)	8,826 (14.4)	8,031 (15.5)
Not Reported	2,729 (6.5)	2,329 (4.7)	3,905 (7.1)	3,433 (5.6)	2,588 (5.0)
Total	42,221	49,144	55,257	61,427	51,971

Table 42
ESTIMATED NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY TYPE OF ACCIDENT
MINNESOTA, 1976-1980

Type of Accident	Number of Estimated Injuries and Illnesses and Percent of Total for Each Year				
	1976	1977	1978	1979	1980
Struck against or by Object	8,739 (20.7)	9,347 (19.0)	12,054 (21.8)	13,091 (21.3)	10,059 (19.4)
Fall	6,857 (16.2)	7,931 (16.1)	8,822 (15.9)	10,169 (16.6)	6,613 (12.7)
Caught in, under or between Objects	3,202 (7.6)	3,436 (7.0)	3,554 (6.4)	3,557 (5.8)	3,058 (5.9)
Abraided	2,120 (5.0)	3,566 (7.3)	1,285 (2.3)	630 (1.0)	471 (.9)
Motion	4,190 (9.9)	4,400 (9.0)	5,151 (9.3)	3,732 (6.1)	6,621 (12.7)
Over Exertion	9,839 (23.3)	13,282 (27.0)	13,670 (24.7)	17,055 (27.8)	16,070 (30.9)
Contact with Electricity	81 (.2)	86 (.2)	71 (.1)	69 (.1)	128 (.2)
Contact with Extreme Temperature	933 (2.2)	1,107 (2.3)	1,170 (2.1)	1,416 (2.3)	1,098 (2.1)
Contact with Toxic Radiation	883 (2.1)	961 (2.0)	1,063 (1.9)	1,402 (2.3)	1,211 (2.3)
Public Transportation	43 (.1)	114 (.2)	36 (.1)	40 (.1)	44 (.1)
Motor Vehicle Accidents	843 (2.0)	928 (1.9)	925 (1.7)	798 (1.3)	1,166 (2.2)
Exposure to Noise	-	-	-	-	63 (.1)
Explosion	-	-	-	-	168 (.3)
Accidents, N.E.C.	589 (1.4)	269 (.5)	1,238 (2.2)	1,944 (3.2)	562 (1.1)
Unclassified Data	3,902 (9.2)	3,717 (7.6)	6,326 (11.4)	7,524 (12.2)	4,639 (8.9)
Total	42,221	49,144	55,365	61,427	51,971

Table 43

ESTIMATED NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY NATURE OF INJURY MINNESOTA, 1976-1980

Nature of Injury	Number of Estimated Injuries and Illnesses and Percent of Total for Each Year				
	1976	1977	1978	1979	1980
Amputation	399 (0.9)	545 (1.1)	626 (1.1)	321 (0.5)	174 (0.3)
Laceration	5,027 (11.9)	5,937 (12.1)	5,928 (10.7)	6,926 (11.3)	5,349 (10.3)
Contusion	4,510 (10.7)	5,939 (12.1)	4,814 (8.7)	4,814 (7.8)	3,932 (7.6)
Abrasions	386 (0.9)	156 (0.3)	525 (0.9)	867 (1.4)	585 (1.1)
Heat Burn	992 (2.3)	1,291 (2.6)	1,183 (2.1)	1,307 (2.1)	1,112 (2.1)
Chemical Burn	471 (1.1)	329 (0.7)	315 (0.6)	377 (0.6)	462 (0.9)
Concussion	76 (0.2)	103 (0.2)	89 (0.2)	71 (0.1)	137 (0.3)
Fracture	3,293 (7.8)	3,452 (7.0)	3,978 (7.2)	4,870 (7.9)	3,681 (7.1)
Dislocation	737 (1.7)	681 (1.4)	987 (1.8)	1,248 (2.0)	762 (1.5)
Sprains	14,013 (33.2)	18,185 (37.0)	19,175 (34.6)	22,518 (36.7)	19,606 (37.7)
Hernia	1,017 (2.4)	993 (2.0)	1,167 (2.1)	1,507 (2.5)	1,083 (2.1)
Asphyxia	13 (0.0)	30 (0.1)	6 (0.0)	15 (0.0)	10 (0.0)
Barometric Effects	- -	18 (0.0)	18 (0.0)	27 (0.0)	3 (0.0)
Frostbite, Freezing	19 (0.0)	57 (0.1)	39 (0.1)	54 (0.1)	24 (0.0)
Heat Stroke	24 (0.1)	18 (0.0)	27 (0.0)	12 (0.0)	21 (0.0)
Electric Shock	41 (0.1)	56 (0.1)	56 (0.1)	51 (0.1)	83 (0.2)
Hearing Loss	54 (0.1)	48 (0.1)	36 (0.1)	51 (0.1)	84 (0.2)

Table 43

ESTIMATED NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY NATURE OF INJURY, MINNESOTA, 1976-1980 (CONT.)

Nature of Injury	Number of Estimated Injuries and Illnesses and Percent of Total for Each Year 1976	1977	1978	1979	1980
Infective Diseases	102 (0.2)	114 (0.2)	64 (0.1)	42 (0.1)	25 (0.0)
Respiratory Diseases	27 (0.1)	48 (0.1)	71 (0.1)	123 (0.2)	96 (0.2)
Pneumoconiosis	9 (0.0)	3 (0.0)	5 (0.0)	10 (0.0)	9 (0.0)
Poisoning	284 (0.7)	571 (1.2)	427 (0.8)	235 (0.4)	294 (0.6)
Mental Diseases	30 (0.1)	18 (0.0)	87 (0.2)	93 (0.2)	39 (0.1)
Nervous System Diseases	19 (0.0)	30 (0.1)	19 (0.0)	37 (0.1)	59 (0.1)
Neoplasm	6 (0.0)	7 (0.0)	9 (0.0)	11 (0.0)	15 (0.0)
Radiation Effects	16 (0.0)	51 (0.1)	45 (0.1)	63 (0.1)	36 (0.1)
Dermatitis	503 (1.2)	612 (1.2)	576 (1.0)	528 (0.9)	498 (1.0)
Circulatory System	97 (0.2)	73 (0.1)	222 (0.4)	248 (0.4)	204 (0.4)
Heart Attack	151 (0.4)	274 (0.6)	279 (0.5)	354 (0.6)	335 (0.6)
Eye Diseases	3 (0.0)	111 (0.2)	21 (0.0)	27 (0.0)	30 (0.1)
Inflammation of Joints	961 (2.3)	1,779 (3.6)	1,260 (2.3)	2,064 (3.4)	1,398 (2.7)
Hemorrhoids	7 (0.0)	9 (0.0)	24 (0.0)	30 (0.0)	12 (0.0)
Multiple Injuries	1,272 (3.0)	1,156 (2.4)	1,333 (2.4)	627 (1.0)	1,002 (1.9)
Unclassified	7,662 (18.1)	6,450 (13.1)	11,954 (21.6)	11,899 (19.4)	10,811 (20.8)
Total	42,221	49,144	55,365	61,427	51,971

Table 44

ESTIMATED NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY PART OF BODY INJURED MINNESOTA, 1976-1980

Part of Body	Number of Estimated Injuries and Illnesses and Percent of Total for Each Year 1976	1977	1978	1979	1980
Head	1,334 (3.2)	1,472 (3.0)	1,756 (3.2)	1,764 (2.9)	1,191 (2.3)
Eye	1,336 (3.2)	1,387 (2.8)	1,419 (2.6)	1,545 (2.5)	1,110 (2.1)
Neck	467 (1.1)	617 (1.3)	767 (1.4)	1,089 (1.8)	771 (1.5)
Upper Extremities, Except Finger	5,673 (13.4)	6,938 (14.1)	7,675 (13.9)	8,306 (13.5)	6,423 (12.4)
Finger	4,832 (11.4)	5,493 (11.2)	6,238 (11.3)	6,225 (10.1)	5,202 (10.0)
Trunk, Except Back	4,116 (9.7)	4,740 (9.6)	5,785 (10.4)	6,767 (11.0)	5,275 (10.1)
Back	10,817 (25.6)	13,688 (27.9)	14,634 (26.4)	17,516 (28.5)	15,855 (30.5)
Lower Extremities, Except Leg	4,437 (10.5)	5,136 (10.5)	5,296 (9.6)	6,087 (9.9)	4,875 (9.4)
Leg	3,876 (9.2)	4,003 (8.1)	4,988 (9.0)	5,520 (9.0)	4,219 (8.1)
Body Systems	851 (2.0)	802 (1.6)	1,020 (1.8)	1,225 (2.0)	966 (1.9)
Multiple Parts	2,946 (7.0)	3,246 (6.6)	3,952 (7.1)	3,385 (5.5)	4,126 (7.9)
Body Parts Unclassified	1,536 (3.6)	1,622 (3.3)	1,835 (3.3)	1,998 (3.3)	1,958 (3.8)
Total	42,221	49,144	55,365	61,427	51,971

Health Care Costs

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Costs of Health Care

Health care expenditures[1] (excepting that of health insurance) within Minnesota reached 4.2 billion dollars in 1980, a 68 percent increase over the comparable expenditure level ($2.5 billion) of 1976. The greatest annual increase occurred between 1979 and 1980 when expenditures rose by 19 percent. The change in expenditure pattern within Minnesota is greater than that of the U.S.; national health care expenditures increased by 15 percent between 1979 and 1980, and by 65 percent between 1976 and 1980.

Health care expenditure increases (or decreases) must be placed within the context of movement of the Consumer Price Index (CPI), both on a local and national level. The national CPI for medical care exhibited an 11 percent increase between 1979 and 1980, and a 45 percent increase between 1976 and 1980. The medical care CPI for the twin cities of Minneapolis and St. Paul increased by 11 percent between 1979 and 1980, and by 37 percent between 1976 and 1980.

Any increase in health care expenditures which exceeded increases in the CPI may be caused by (1) increased overall utilization of health care within a geographic marketplace, (2) intensified consumer demand for specific types of care or services, or (3) increased prices charged to consumers of health care in order to offset real or perceived cost attributable by providers to provision of health care. Increases in price may be due to cost shifting by providers in the face of consumer or third party payor price resistance, or may reflect use of new, expensive "high technology" procedures, primarily within hospital settings.

Health Care Expenditures by Type of Service

Figure 26 depicts estimated[2] expenditures (excluding costs of health insurance) by type of service provided for both 1976 and 1980. The distribution of expenditures for health services changed very little over the five year interval. Health care personnel such as physicians, dentists, optometrists, and physical therapists consumed almost 27 cents of each health care dollar in 1976 and 28 cents in 1980. Hospitals and nursing homes used almost half of the entire dollar, 47 cents in 1976 and 49 cents in 1980. Nine cents of each dollar was spent on drugs and other pharmaceutical products in 1976 and eight cents was spent in 1980. The biggest change in proportional spending of the health care dollar occurred in the "other" category where items such as health program administration, research, construction and training, and chemical dependency and mental health services consumed 12 cents of each dollar in 1976 and 15 cents in 1980. The largest portion of this increase (1.6 cents) occurred in the mental health and chemical dependency area where changes in Minnesota's mandated benefits for the treatment of mental disorders took effect in 1976, resulting in increased reimbursement for mental health and chemical dependency services.

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[1] Major credit for overall analysis of the costs of health care is due the Minnesota Coalition on Health Care Costs and the Center for Health Services Research-University of Minnesota. The Minnesota Center for Health Statistics is, however, solely responsible for any conclusions or inferences presented in this section.

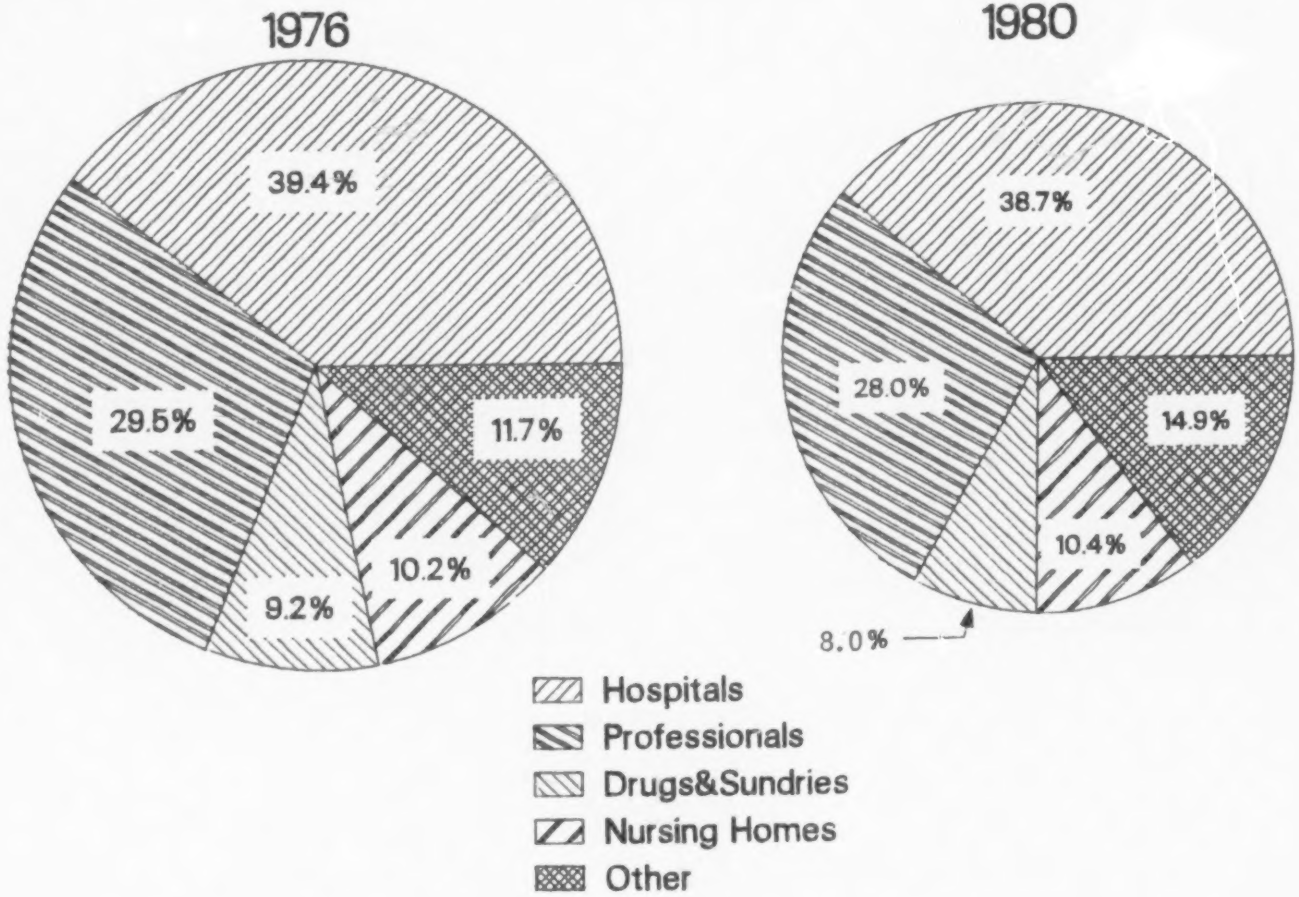
[2] Estimates of expenditures were obtained for hospitals, physicians, drugs and sundries, dental services, vision care and nursing homes. With the exception of hospital and nursing home expenditures, which were taken from Minnesota specific data, these statistics are based on regional or national expenditure figures. The differences between the estimated expenditure totals by type and tabulations from available "real" data appears to approach 6.8 percent, or a possible error of 271,000,000 dollars in excess of probable expenditures. This level of error was assessed by comparing the total sum of expenditures by source of funds in 1980 (See Figure 27) against the total estimated expenditure according to type (See Figure 28).

Hospital costs accounted for approximately 40 percent of national health care expenditures and 39 percent of Minnesota's health care expenditures in both 1976 and 1980. Data retrieved from the American Hospital Association indicated that total expenditures for hospital-based care in Minnesota increased by 17.3 percent between 1979 and 1980 and by 64.4 percent between 1976 and 1980. National expenditures increased by 16.2 percent between 1979 and 1980 and 66.5 percent between 1976 and 1980.

Data retrieved from the American Medical Association suggests that physicians services accounted for 15.5 percent of health care expenditures in Minnesota in 1980 and approximately 15.8 percent of health care expenditures in 1976. Physicians services accounted for 18.9 percent of all national health care expenditures in 1980 and 18.6 percent in 1976. The amount spent in Minnesota in 1980 represents a 62.5 percent increase over 1976 and a 13.6 percent increase over 1979. The Health Care Financing Association (Department of Health and Human Services) reports a 68.8 percent increase in expenditures for physicians services nationwide between 1976 and 1980, and a 14.5 percent increase between 1979 and 1980.

Expenditures on nursing homes consumed 10.4 percent of Minnesota's health care dollar in 1980, and 10 percent in 1976. Nationwide, nursing home expenditures accounted for 8.4 percent of total health care expenditures in 1980 and 7.8 percent in 1976. Expenditures on nursing homes in Minnesota increased by 72.7 percent between 1976 and 1980 and by 17.4 percent between 1979 and 1980. Nationwide, expenditures on nursing homes increased by 82 percent between 1976 and 1980 and by 16.6 percent between 1979 and 1980. The share of nursing home expenditures covered by Medicaid in Minnesota increased from 56 percent in 1976 to 63.5 percent in 1980.

Figure 26
How Each Dollar for Health Care Services Was Spent (Excluding Health Insurance), Minnesota, 1976 and 1980



SOURCE: Minnesota Center for Health Statistics

Medicaid[3] expenditures in Minnesota increased by 15.8 percent between 1979 and 1980 and by 82.9 percent between 1976 and 1980. Nationwide, expenditures on Medicaid increased by 16.9 percent between 1979 and 1980 and 70.5 percent between 1976 and 1980. Nearly 48 percent of 1980 Medicaid expenditures in Minnesota went to nursing homes compared to 43.7 percent in 1976. Payments to nursing homes made up 40.7 percent of all Medicaid expenditures across the nation in 1980, compared to 36.5 percent in 1976.

Medicare Part A[4] reimbursements in Minnesota increased by approximately 20.6 percent between 1979 and 1980 and by 64.9 percent between 1976 and 1980. Medicare Part B[5] payments in Minnesota increased by 25.5 percent between 1979 and 1980 and by 105 percent between 1979 and 1980. Estimates derived from figures provided by BCBSM and Travelers show smaller increases in Minnesota (23.1 and 88 percent respectively). Nationwide, total Medicare Part A reimbursements increased by 20 percent between 1979 and 1980 and by 89 percent between 1976 and 1980. Medicare Part B reimbursements increased by 24.8 percent across the nation between 1979 and 1980 and by 130 percent between 1976 and 1980. Almost three-quarters of Medicare benefits in both Minnesota and the nation were spent on hospital care. The largest annual increases in Medicare reimbursements for the past five years occurred between 1979 and 1980 in both Minnesota and the U.S.

Federal expenditures for a variety of health programs other than Medicare and Medicaid increased by nearly 64 percent between 1976 and 1980. These programs include the Veterans Administration hospitals, the Indian Health Service, the federal prison system, state health agencies and social service programs funded by Title XX.

Within Minnesota, expenditures per person in the state hospital system increased by 48 percent between 1976 and 1980. Another major state health program, Workers Compensation, continued to consume health care dollars at a rate well in excess of increases in the CPI for medical care. Total incurred claims[6] for calendar year 1980 were reported at $345,268 million. Total incurred claims exceeded the 1976 incurred claims level ($152,651 million) by 226 percent.

HMOs have come to play an increasing role in Minnesota's health care scene with over 11 percent of the population presently enrolled. Enrollment growth in Minnesota surpassed the national annual average by 15 to 25 percent over the past four years. Between 1979 and 1980 alone, Minnesota HMOs experienced a 35 percent increase in enrollment.

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[3] See "Definition of Terms," page 157 for description of program.

[4] Ibid., page 158.

[5] Ibid., page 158.

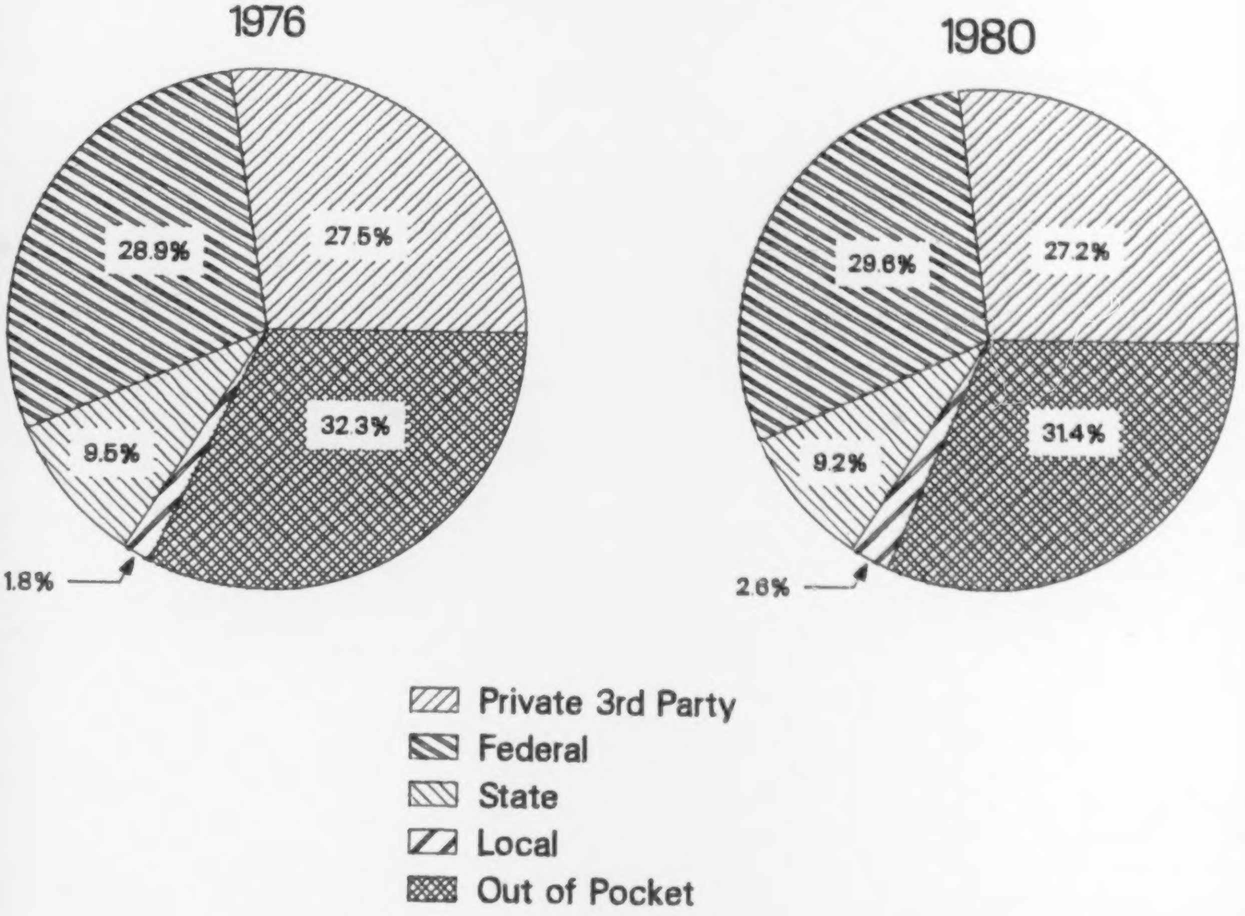
[6] These data do not include losses incurred by firms who self-insure, a phenomena which has become much more prevalent since 1978.

The average cost per enrollee increased by 42.5 percent between 1976 and 1980. Between 1979 and 1980, cost per enrollee increased by 16.7 percent. Total expenditures increased by almost 290 percent between 1976 and 1980, and by 53 percent between 1979 and 1980.

Health Care Expenditures by Source of Payment

Figure 27 compares Minnesota health care expenditures for 1976 and 1980 on the basis of source of payment. Unlike a decade earlier (the advent of Medicare and Medicaid), almost no change occurred over time. In fact, no source of payment increased or decreased by more than 0.9 percent.

Figure 27
Percent of Expenditures by Source of Payment
Minnesota, 1976 and 1980



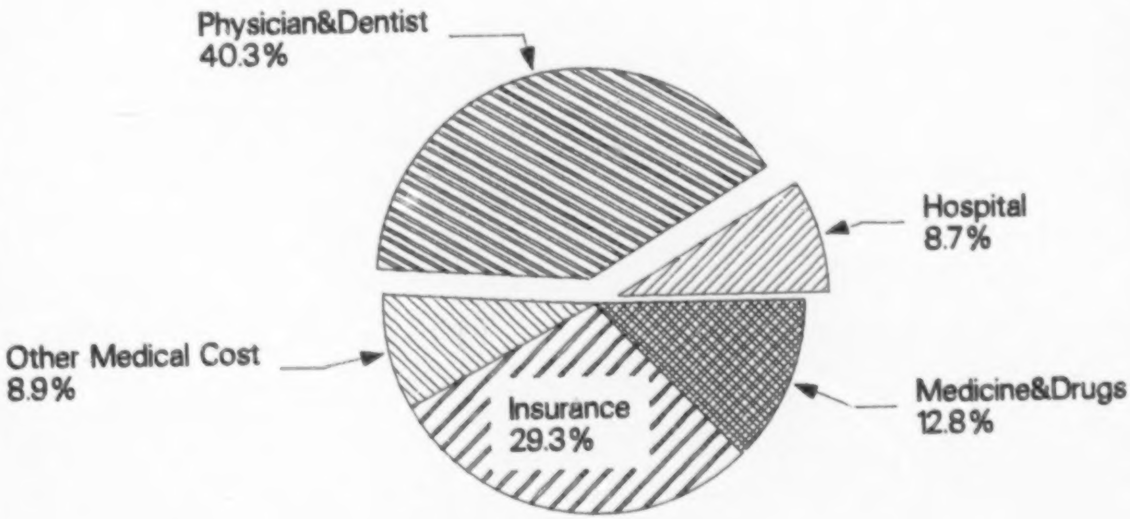
SOURCE: Minnesota Center for Health Statistics

Health Care Expenditures Reported by Tax Filers in 1980

Those who conduct research in the personal and household expenditure arena have occasionally used data coded from individual income tax returns in order to amplify basic understanding of expenditure patterns, rather than relying on national data or localized estimates. However, state and federal tax code is not often sympathetic to health expenditure survey research, thus most tax code across the nation falls far short of providing unbiased data for research purposes. Fortunately, Minnesota's tax code did encourage recording through 1981 of health care expenditures (excepting travel) by those who itemized deductions. Sixty one percent of all individuals who filed a tax form in 1980 itemized deductions, although the incentive to itemize varied by income level. Virtually 99 percent of those whose Minnesota gross income was $100,000 or over itemized deductions, however only 42 percent of those whose gross income was between $3,000 and $3,999 itemized deductions.

Figure 28 below presents results of an analysis of data sampled from individual income tax returns, Schedule A, "Itemized Deductions," filed in 1981 for the 1980 tax year (see "Definition of Terms, page 158, for description of allowable health care expenditures).

Figure 28
Proportion of Each Health Care Dollar Expended, by Type of Expenditure, as Reported by Minnesota Tax Filers, 1980



SOURCE: Minnesota Center for Health Statistics

Unlike data reported elsewhere in this section, health insurance is factored into this analysis for the first time and its cost was not trivial . . . 29 cents of each health care dollar. Medicine and drugs cost slightly more than the previous analysis suggests, 13 cents versus 8 cents reported elsewhere. Other medical costs such as eyeglasses, hearing aids, lodging while receiving medical care, or ambulance services amounted to 9 cents of each dollar. The proportion of each dollar spent on health care resources such as hospitals, physicians, and dentists amounted to 49 cents, or just under half of the total.

Table 45 below indicates that reported deductions for health care expenditures in 1980 varied by income. The lowest level of deductions ($1,225) was claimed by those in the $20,000-$29,999 gross income range, while those in the $125,000 to $200,000+ gross income range claimed, on average $4,177. The average total deduction for all itemizing tax filers was $1,376.00. Those with reported gross incomes in 1980 under $10,000 recorded the smallest deductions for physician and dentist services, while those whose reported gross income was between $10,000 and $19,999 recorded the smallest deductions for medicine and drugs. Those whose reported gross income ranged between $20,000 and $29,999 reported the smallest deductions for insurance and hospital expenditures. The smallest deductions for other medical expense were reported by those with gross incomes between $10,000 and $19,999.

Those whose reported gross income was between $125,000 and $200,000+ in 1980 recorded the largest deductions for medicine and drugs, hospital expenditures, payments for physician and dentist services, and expenditures for "other medical services." Those who reported negative gross incomes in 1980 recorded the largest deductible for insurance expense.

Table 45
AVERAGE DEDUCTIONS FOR HEALTH CARE EXPENDITURES IN 1980, MINNESOTA TAX FILERS

Minnesota Gross Income Range	Insurance	Medicine and Drugs	Hospital	Physician and Dentist	Other Medical	Total Average Deduction
$-20,000 to 0*	$561.10	$172.79	$362.44	$ 526.39	$184.34	$1,807.06
1 to 9,999	400.03	142.99	312.66	325.60	321.18	1,502.46
10,000 to 19,999	375.29	125.63	268.02	371.48	178.77	1,319.19
20,000 to 29,999	322.05	137.11	175.22	408.85	182.18	1,225.41
30,000 to 49,999	354.64	147.83	218.20	503.46	180.43	1,404.56
50,000 to 124,999	482.50	184.23	390.79	807.48	284.28	2,149.28
125,000 to 200,000+	519.59	254.04	772.84	1,453.66	1,176.53	4,176.66
Average of All Filers	369.00	138.00	251.00	404.00	214.00	1,376.00

* Represents a negative gross income calculation on the 1980 Tax Return, Form M-1.

SOURCE: Data collected by the Minnesota Department of Revenue. Analysis was performed separately by the Research Office (Department of Revenue) and the Minnesota Center for Health Statistics.

DEFINITIONS

Residence: This is the geographic area of the usual place of abode of the deceased at the time of death or of the mother in the case of live births or fetal deaths. This means, in general, the place where one lives and sleeps most of the time. However, when usual residence is in a nursing home or other institution, where the patient resided for the purpose of receiving care, residence is coded to the place where the patient lived prior to admission to the institution.

Region: Region refers to the eight Minnesota Department of Health Districts. Region names and counties within regions follow:

Northwestern: Beltrami, Clearwater, Hubbard, Kittson, Lake of the Woods, Mahnomen, Marshall, Norman, Pennington, Polk, Red Lake, and Roseau

Northeastern: Aitkin, Carlton, Cook, Itasca, Koochiching, Lake, and St. Louis

West Central: Becker, Clay, Douglas, Grant, Otter Tail, Pope, Stevens, Traverse, and Wilkin

Central: Benton, Cass, Chisago, Crow Wing, Isanti, Kanabec, Mille Lacs, Morrison, Pine, Sherburne, Stearns, Todd, Wadena, and Wright

Southwestern: Big Stone, Chippewa, Cottonwood, Jackson, Kandiyohi, Lac Qui Parle, Lincoln, Lyon, McLeod, Meeker, Murray, Nobles, Pipestone, Redwood, Renville, Rock, Swift, and Yellow Medicine

South Central: Blue Earth, Brown, Faribault, Le Sueur, Martin, Nicollet, Sibley, Waseca, and Watonwan

Southeastern: Dodge, Fillmore, Freeborn, Goodhue, Houston, Mower, Olmsted, Rice, Steele, Wabasha, and Winona

Metropolitan: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington.

Rate: Rates are given per 1,000 except for certain causes of death when they are stated as per 100,000.

Live Birth: Live birth means the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which after such separation breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached; each product of such a birth is considered a live born.

Birth Rate: The number of live births per 1,000 population.

Fertility Rate: The number of live births per 1,000 women in the population of age 15 through 44 years.

High Risk Birth: A birth is classified as high risk if any of the following conditions exist:

Mother's age: Less than 17 years or over 39 years.
Prenatal care: Less than 3 visits.
Condition not related to pregnancy: Tuberculosis, rubella, diabetes, or cardiac condition.
Condition related to pregnancy: Hydramnios, urinary tract infection, or toxemia.
Condition of labor: Prolonged labor.
Birth weight: 2,500 grams or less, (5 lb. 8 oz.)
Birth injury: To brain, spinal cord, fractures, other bone injury, paralysis, or nerve injuries.
Birth condition: Hemolytic diseases of newborn, hyaline membrane D, respiratory distress syndrome, or atelectasis.
Congenital anomaly.

Live Birth Order: The number of live births including the current birth.

Fetal Death: Fetal death is death prior to the complete expulsion or extraction of a product of conception from its mother, irrespective of the duration of pregnancy. In this summary only the fetal deaths of 20 weeks or more are reported.

Fetal Death Order: The number of fetal deaths including the current fetal death.

Maternal Death: Maternal death is a death attributable to delivery or a complication of pregnancy, childbirth, or the puerperium, as defined by the International Classification of Diseases.

Infant Death: A death under one year of age.

Neonatal Death: A death during the first 4 weeks of life.

Perinatal Mortality Rate: The number of fetal deaths of 20 weeks or more plus the number of neonatal deaths per 1,000 live births.

Cause of Death: The Ninth Revision of the International Classification of Diseases (ICD) was used.

Adjusted Death Rates: Total rates for counties and cities are adjusted for sex and age on the basis of the state population.

Specific age group rates for counties and cities have been adjusted for sex on the basis of the state population for the specific age group.

Minnesota's Medicaid Program

[3] Title XIX of the Social Security Act provides for a program of medical assistance for certain low-income individuals and families. The program, known as Medicaid, became Federal law in 1965. It succeeded earlier welfare-linked medical care programs, most notably the Kerr-Mills program of medical assistance for the aged. Medicaid is financed jointly by State and Federal funds. The Federal contribution to the cost of the program currently ranges from 50 percent to 77.55 percent. It is basically administered by each State within broad Federal requirements and guidelines.

Medicaid is designed to provide medical assistance to persons eligible to receive cash payments under one of the existing welfare programs established under the Social Security Act--Title IV-A, the program of Aid to Families with Dependent Children (AFDC), or title XVI, the Supplemental Security Income (SSI) program for the aged, blind, and disabled. Receipt of a welfare payment under one of these programs generally means automatic eligibility for Medicaid.

States may also provide Medicaid to the "medically needy," that is, to persons covered under one of the cash welfare programs (aged, blind, or disabled individuals or members of those families with dependent children having one parent absent, incapacitated, or unemployed) who have enough income to meet their basic living expenses (and so are not recipients of welfare) but do not have enough to pay for their medical care.

Medicaid does not provide medical assistance to all of the poor. Low income is only one test of eligibility. Resources are also tested. Most importantly, one must belong to one of the groups designated for welfare eligibility to be covered.

Title XIX of the Social Security Act requires that certain basic services include inpatient hospital services, outpatient hospital services, laboratory and X-ray services, skilled-nursing facility services for individuals aged 21 or older, home health care services for individuals eligible for skilled-nursing services, physicians' services, family planning services, rural health clinic services, and early, periodic screening, diagnosis, and treatment services for individuals under age 21. In addition, States may provide a number of other services if they elect to do so, including prescription drugs, eyeglasses, private day-care nursing, intermediate-care facility services, inpatient psychiatric care for the aged and persons under age 21, physical therapy, and dental care.

Minnesota's Medicare - Part A Program

4 This program enrolls for beneifts all persons aged 65 and over who are entitled to monthly cash benefits under the OASDI or Railroad Retirement programs (whether retired or not), as well as disabled persons under age 65 who have been entitled to disability cash benefits for at least 24 months and insured workers (and their spouses and children) with end-stage renal disease who require renal dialysis or a kidney transplant. Also eligible for HI enrollment under transitional provisions are persons aged 65 and over with specified amounts of earnings credits less than that required for cash benefit eligibility. Since July 1973, most persons aged 65 or older and otherwise ineligible for Hospital Insurance have been permitted to enroll voluntarily and pay a monthly premium for HI protection if they are enrolled for SMI.

The HI program pays for part of the costs of inpatient hospital care and related health care provided by skilled-nursing facilities (SNF's) and home health agencies (HHA's) following a period of hospitalization.

Minnesota's Medicare - Part B Program

5 Supplementary Medical Insurance (SMI), which requires payment by the beneficiary of a monthly premium.

The SMI program pays 80 percent of the charges allowed for medical and related health services and supplies furnished by physicians (or others in connection with physicians' services), and by hospital outpatient facilities and home health agencies, after the beneficiary has met an established deductible amount. Radiology and pathology services furnished by physicians to hospital inpatients are covered without any deductible or coinsurance payments.

Description of Health Care Expenses Subject to Itemized Deductions by Resident Minnesota Tax Filers

In taxable year 1980, Minnesota residents could deduct expenses for:

- Medicare insurance deducted from the social security checks received.
- Medical care or hospitalization insurance costs. The full amount paid or withheld from wages for medical care insurance, even if no medical expenses were incurred, could be deducted.
- Medicines, drugs, birth control pills, vaccines and vitamins prescribed by a doctor.
- Hospitals, medical doctors, osteopaths, dentists, podiatrists, physiotherapists, psychiatrists, psychologists, eye doctors or others who examine eyes, chiropractors and nurses. If someone was paid to provide nursing care who is also paid to do housework, only the cost of the nursing care could be deducted.

- Institutions to provide care and treatment of the chemically dependent, mentally ill, mentally retarded or physically handicapped. If support was provided to a mentally ill, mentally retarded or physically handicapped person who was cared for in a state institution, such amounts as were spent by the state for the care of that person were not included in determining whether that person qualifies as a dependent.
- Examinations, x-ray services, insulin treatment and whirlpool baths ordered by a doctor.
- Ambulance services.
- False teeth, eyeglasses, contact lenses, medical and surgical aids, arches, braces, crutches, back supports, wheelchairs, hearing aids, batteries for hearing aids, orthopedic shoes and the cost and care of guide dogs.
- If medical care prescribed by a doctor resulted in staying away from home, the cost paid for lodging while receiving the medical care away from home could be deducted.

The following expenses could not be deducted:

- Traveling to obtain medical or dental care or any expenses incurred while traveling to obtain medical or dental care.
- Travel prescribed by a doctor for a rest or change.
- Payments for cosmetics, toothpaste or items for personal hygiene.
- Life insurance, loss-of-time insurance or the medical portion of automobile insurance.
- Funerals, burial expenses and cemetery lots.
- Amounts for Medicare included in the social security (FICA) tax that an employer withheld from pay, or that a taxpayer included in his/her self-employment tax.

OTHER RELATED PUBLICATIONS AVAILABLE

REPORTED INDUCED ABORTIONS, MINNESOTA

1977, Published July, 1978
1978, Published August, 1979
1979, Published August, 1980
1980, Published September, 1981
1981, Published February, 1983

TEENAGE PREGNANCY IN MINNESOTA

Published May, 1981

HEALTHY PEOPLE--THE MINNESOTA EXPERIENCE

Published October, 1982

SMOKING AND THE MINNESOTA POPULATION--A REPORT ON SMOKING AS A BEHAVIORAL RISK TO GOOD HEALTH

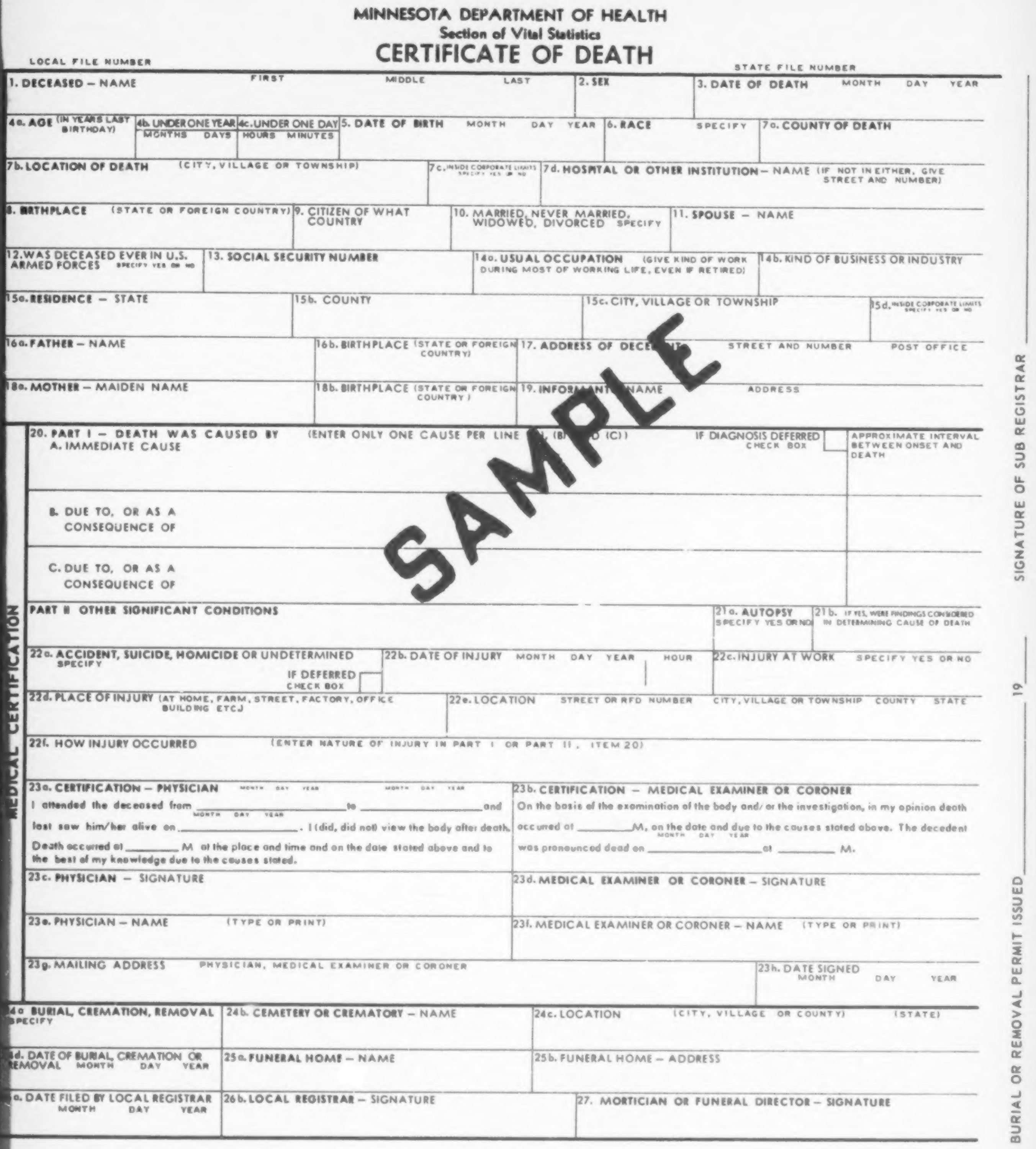
Published February, 1983

Additional related publications are out of print. Xerox copies of specific data, as well as other birth, fetal death, death, abortion, marriage, or divorce information, may be obtained on request by contacting:

Minnesota Department of Health
Center for Health Statistics
717 Delaware Street S.E.
P.O. Box 9441
Minneapolis, Minnesota 55440

Telephone Number: (612) 623-5353

Figure 29



MINNESOTA DEPARTMENT OF HEALTH
Section of Vital Statistics
CERTIFICATE OF DEATH

LOCAL FILE NUMBER

STATE FILE NUMBER

1. DECEASED – NAME FIRST MIDDLE LAST	2. SEX	3. DATE OF DEATH MONTH DAY YEAR	
4a. AGE (IN YEARS LAST BIRTHDAY)	4b. UNDER ONE YEAR MONTHS DAYS	4c. UNDER ONE DAY HOURS MINUTES	5. DATE OF BIRTH MONTH DAY YEAR
6. RACE SPECIFY	7a. COUNTY OF DEATH		
7b. LOCATION OF DEATH (CITY, VILLAGE OR TOWNSHIP)	7c. INSIDE CORPORATE LIMITS SPECIFY YES OR NO	7d. HOSPITAL OR OTHER INSTITUTION – NAME (IF NOT IN EITHER, GIVE STREET AND NUMBER)	
8. BIRTHPLACE (STATE OR FOREIGN COUNTRY)	9. CITIZEN OF WHAT COUNTRY	10. MARRIED, NEVER MARRIED, WIDOWED, DIVORCED SPECIFY	11. SPOUSE – NAME
12. WAS DECEASED EVER IN U.S. ARMED FORCES SPECIFY YES OR NO	13. SOCIAL SECURITY NUMBER	14a. USUAL OCCUPATION (GIVE KIND OF WORK DURING MOST OF WORKING LIFE, EVEN IF RETIRED)	14b. KIND OF BUSINESS OR INDUSTRY
15a. RESIDENCE – STATE	15b. COUNTY	15c. CITY, VILLAGE OR TOWNSHIP	15d. INSIDE CORPORATE LIMITS SPECIFY YES OR NO
16a. FATHER – NAME	16b. BIRTHPLACE (STATE OR FOREIGN COUNTRY)	17. ADDRESS OF DECEDENT STREET AND NUMBER POST OFFICE	
18a. MOTHER – MAIDEN NAME	18b. BIRTHPLACE (STATE OR FOREIGN COUNTRY)	19. INFORMANT – NAME ADDRESS	

MEDICAL CERTIFICATION

20. PART I – DEATH WAS CAUSED BY (ENTER ONLY ONE CAUSE PER LINE (A), (B) AND (C)) A. IMMEDIATE CAUSE	IF DIAGNOSIS DEFERRED CHECK BOX ☐	APPROXIMATE INTERVAL BETWEEN ONSET AND DEATH
B. DUE TO, OR AS A CONSEQUENCE OF		
C. DUE TO, OR AS A CONSEQUENCE OF		
PART II OTHER SIGNIFICANT CONDITIONS	21a. AUTOPSY SPECIFY YES OR NO	21b. IF YES, WERE FINDINGS CONSIDERED IN DETERMINING CAUSE OF DEATH
22a. ACCIDENT, SUICIDE, HOMICIDE OR UNDETERMINED SPECIFY IF DEFERRED CHECK BOX ☐	22b. DATE OF INJURY MONTH DAY YEAR HOUR	22c. INJURY AT WORK SPECIFY YES OR NO
22d. PLACE OF INJURY (AT HOME, FARM, STREET, FACTORY, OFFICE BUILDING ETC.)	22e. LOCATION STREET OR RFD NUMBER CITY, VILLAGE OR TOWNSHIP COUNTY STATE	
22f. HOW INJURY OCCURRED (ENTER NATURE OF INJURY IN PART I OR PART II, ITEM 20)		

23a. CERTIFICATION – PHYSICIAN
I attended the deceased from ________ (MONTH DAY YEAR) to ________ (MONTH DAY YEAR) and last saw him/her alive on ________ (MONTH DAY YEAR). I (did, did not) view the body after death. Death occurred at ______ M at the place and time and on the date stated above and to the best of my knowledge due to the causes stated.

23b. CERTIFICATION – MEDICAL EXAMINER OR CORONER
On the basis of the examination of the body and/or the investigation, in my opinion death occurred at ______ M, on the date and due to the causes stated above. The decedent was pronounced dead on ________ (MONTH DAY YEAR) at ______ M.

23c. PHYSICIAN – SIGNATURE	23d. MEDICAL EXAMINER OR CORONER – SIGNATURE
23e. PHYSICIAN – NAME (TYPE OR PRINT)	23f. MEDICAL EXAMINER OR CORONER – NAME (TYPE OR PRINT)
23g. MAILING ADDRESS PHYSICIAN, MEDICAL EXAMINER OR CORONER	23h. DATE SIGNED MONTH DAY YEAR

4a BURIAL, CREMATION, REMOVAL PECIFY	24b. CEMETERY OR CREMATORY – NAME	24c. LOCATION (CITY, VILLAGE OR COUNTY) (STATE)
d. DATE OF BURIAL, CREMATION OR EMOVAL MONTH DAY YEAR	25a. FUNERAL HOME – NAME	25b. FUNERAL HOME – ADDRESS
a. DATE FILED BY LOCAL REGISTRAR MONTH DAY YEAR	26b. LOCAL REGISTRAR – SIGNATURE	27. MORTICIAN OR FUNERAL DIRECTOR – SIGNATURE

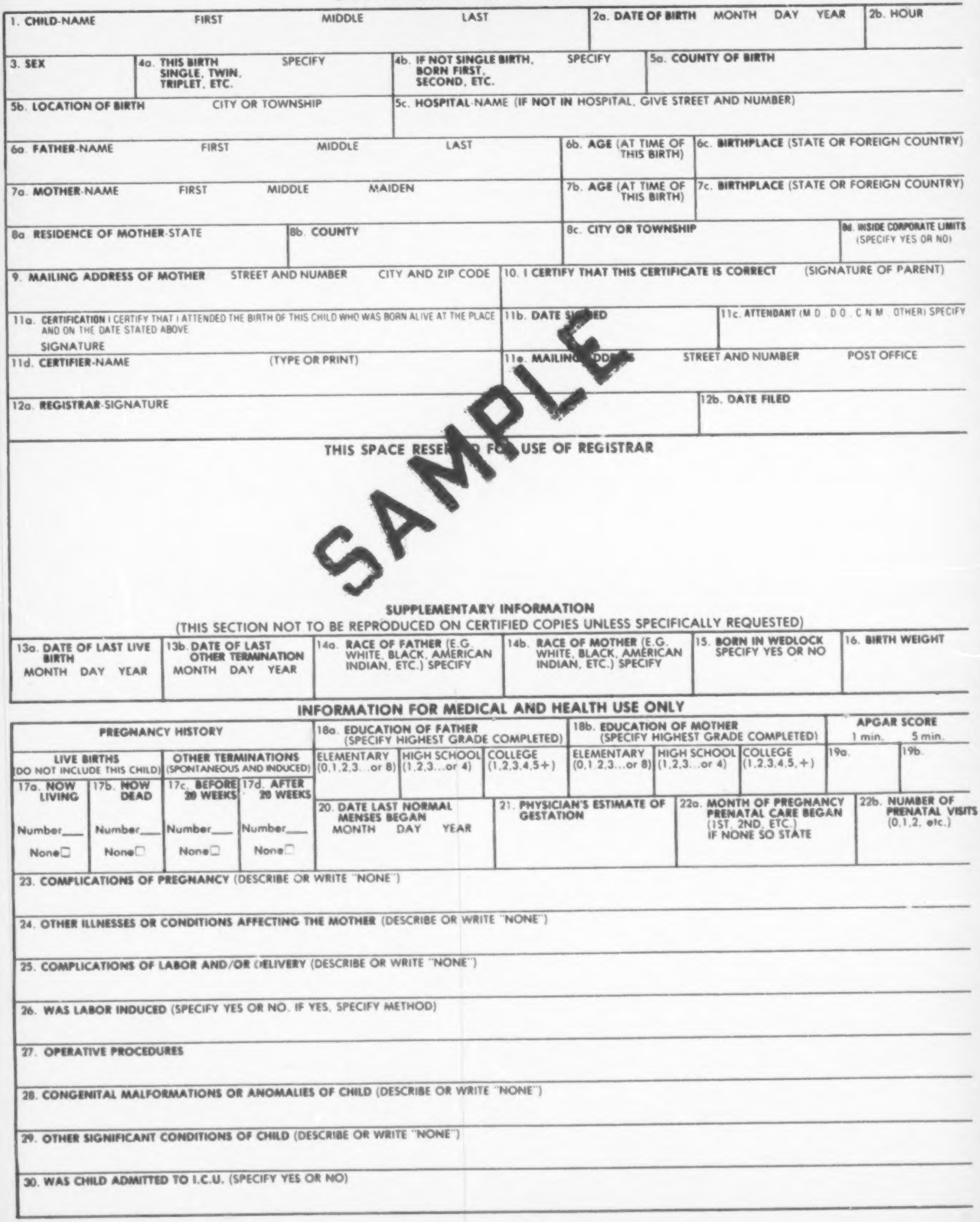
SIGNATURE OF SUB REGISTRAR ________

19____

BURIAL OR REMOVAL PERMIT ISSUED ________

SAMPLE

Figure 30



Minnesota Department of Health
Section of Vital Statistics

CERTIFICATE OF LIVE BIRTH

1. **CHILD**-NAME FIRST MIDDLE LAST			2a. **DATE OF BIRTH** MONTH DAY YEAR	2b. HOUR
3. **SEX**	4a. **THIS BIRTH SINGLE, TWIN, TRIPLET, ETC.** SPECIFY	4b. **IF NOT SINGLE BIRTH, BORN FIRST, SECOND, ETC.** SPECIFY	5a. **COUNTY OF BIRTH**	
5b. **LOCATION OF BIRTH** CITY OR TOWNSHIP	5c. **HOSPITAL**-NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER)			
6a. **FATHER**-NAME FIRST MIDDLE LAST	6b. **AGE** (AT TIME OF THIS BIRTH)	6c. **BIRTHPLACE** (STATE OR FOREIGN COUNTRY)		
7a. **MOTHER**-NAME FIRST MIDDLE MAIDEN	7b. **AGE** (AT TIME OF THIS BIRTH)	7c. **BIRTHPLACE** (STATE OR FOREIGN COUNTRY)		
8a **RESIDENCE OF MOTHER**-STATE	8b. **COUNTY**	8c. **CITY OR TOWNSHIP**	8d. **INSIDE CORPORATE LIMITS** (SPECIFY YES OR NO)	
9. **MAILING ADDRESS OF MOTHER** STREET AND NUMBER CITY AND ZIP CODE	10. **I CERTIFY THAT THIS CERTIFICATE IS CORRECT** (SIGNATURE OF PARENT)			
11a. **CERTIFICATION** I CERTIFY THAT I ATTENDED THE BIRTH OF THIS CHILD WHO WAS BORN ALIVE AT THE PLACE AND ON THE DATE STATED ABOVE SIGNATURE	11b. **DATE SIGNED**	11c. **ATTENDANT** (M.D., D.O., C.N.M., OTHER) SPECIFY		
11d. **CERTIFIER**-NAME (TYPE OR PRINT)	11e. **MAILING ADDRESS** STREET AND NUMBER POST OFFICE			
12a. **REGISTRAR**-SIGNATURE	12b. **DATE FILED**			

THIS SPACE RESERVED FOR USE OF REGISTRAR

SAMPLE

SUPPLEMENTARY INFORMATION
(THIS SECTION NOT TO BE REPRODUCED ON CERTIFIED COPIES UNLESS SPECIFICALLY REQUESTED)

13a. **DATE OF LAST LIVE BIRTH** MONTH DAY YEAR	13b. **DATE OF LAST OTHER TERMINATION** MONTH DAY YEAR	14a. **RACE OF FATHER** (E.G. WHITE, BLACK, AMERICAN INDIAN, ETC.) SPECIFY	14b. **RACE OF MOTHER** (E.G. WHITE, BLACK, AMERICAN INDIAN, ETC.) SPECIFY	15. **BORN IN WEDLOCK** SPECIFY YES OR NO	16. **BIRTH WEIGHT**

INFORMATION FOR MEDICAL AND HEALTH USE ONLY

PREGNANCY HISTORY				18a. **EDUCATION OF FATHER** (SPECIFY HIGHEST GRADE COMPLETED)			18b. **EDUCATION OF MOTHER** (SPECIFY HIGHEST GRADE COMPLETED)			**APGAR SCORE** 1 min. 5 min.
LIVE BIRTHS (DO NOT INCLUDE THIS CHILD)		**OTHER TERMINATIONS** (SPONTANEOUS AND INDUCED)		ELEMENTARY (0,1,2,3...or 8)	HIGH SCHOOL (1,2,3...or 4)	COLLEGE (1,2,3,4,5+)	ELEMENTARY (0,1,2,3...or 8)	HIGH SCHOOL (1,2,3...or 4)	COLLEGE (1,2,3,4,5,+)	19a. 19b.
17a. **NOW LIVING** Number___ None☐	17b. **NOW DEAD** Number___ None☐	17c. **BEFORE 20 WEEKS** Number___ None☐	17d. **AFTER 20 WEEKS** Number___ None☐	20. **DATE LAST NORMAL MENSES BEGAN** MONTH DAY YEAR		21. **PHYSICIAN'S ESTIMATE OF GESTATION**		22a. **MONTH OF PREGNANCY PRENATAL CARE BEGAN** (1ST, 2ND, ETC.) IF NONE SO STATE		22b. **NUMBER OF PRENATAL VISITS** (0,1,2, etc.)

23. **COMPLICATIONS OF PREGNANCY** (DESCRIBE OR WRITE "NONE")

24. **OTHER ILLNESSES OR CONDITIONS AFFECTING THE MOTHER** (DESCRIBE OR WRITE "NONE")

25. **COMPLICATIONS OF LABOR AND/OR DELIVERY** (DESCRIBE OR WRITE "NONE")

26. **WAS LABOR INDUCED** (SPECIFY YES OR NO. IF YES, SPECIFY METHOD)

27. **OPERATIVE PROCEDURES**

28. **CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD** (DESCRIBE OR WRITE "NONE")

29. **OTHER SIGNIFICANT CONDITIONS OF CHILD** (DESCRIBE OR WRITE "NONE")

30. **WAS CHILD ADMITTED TO I.C.U.** (SPECIFY YES OR NO)

Important: Please Read Reverse Side

Figure 31

Margin
eserved
for
Coding

Mail Directly to
Section of Vital Statistics
Minnesota Dept. of Health
St. Paul, Minn. 55101

MINNESOTA DEPARTMENT OF HEALTH
Section of Vital Statistics
MEDICAL SUPPLEMENT TO THE
CERTIFICATE OF FETAL DEATH

This information is to be used solely for medical or scientific purposes. Confidentiality is provided under M.S. 144.053.

1. FETUS – NAME FIRST MIDDLE LAST
2a. DATE OF DELIVERY MONTH DAY YEAR
2b. HOUR
3. SEX
4a. THIS DELIVERY SINGLE, TWIN, TRIPLET, ETC. SPECIFY
4b. IF NOT SINGLE DELIVERY BORN FIRST, SECOND, ETC. SPECIFY
5a. COUNTY OF DELIVERY
5b. LOCATION OF DELIVERY CITY, VILLAGE OR TOWNSHIP
5c. INSIDE CORPORATE LIMITS SPECIFY YES OR NO
5d. HOSPITAL – NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER)
6a. FATHER – NAME FIRST MIDDLE LAST
6b. AGE (AT TIME OF THIS DELIVERY)
6c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
7a. MOTHER – MAIDEN NAME FIRST MIDDLE LAST
7b. AGE (AT TIME OF THIS DELIVERY)
7c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
8a. RESIDENCE OF MOTHER – STATE
8b. COUNTY
8c. CITY, VILLAGE OR TOWNSHIP
8d. INSIDE CORPORATE LIMITS SPECIFY YES OR NO
9. ADDRESS OF MOTHER STREET AND NUMBER POST OFFICE
10. I CERTIFY THAT TH[illegible] CERTIFICATE IS CORRECT (SIGNATURE OF PARENT)

SAMPLE

11. PART I. FETAL DEATH WAS CAUSED BY (ENTER ONLY ONE CAUSE PER LINE FOR (A), (B) AND (C))
A. IMMEDIATE CAUSE
DIAGNOSIS DEFERRED CHECK BOX ☐
FETAL OR MATERNAL CAUSE SPECIFY
B. DUE TO, OR AS A CONSEQUENCE OF
C. DUE TO, OR AS A CONSEQUENCE OF
PART II. OTHER SIGNIFICANT CONDITIONS OF FETUS OR MOTHER
12. FETUS DIED (BEFORE LABOR DURING LABOR OR DELIVERY, UNKNOWN) SPECIFY
13a. AUTOPSY SPECIFY YES OR NO
13b. IF YES, WERE FINDINGS CONSIDERED IN DETERMINING CAUSE OF DEATH
14a. I CERTIFY THAT THIS DELIVERY OCCURRED ON THE DATE STATED ABOVE AND THE FETUS WAS BORN DEAD
SIGNATURE
14b. DATE SIGNED
14c. ATTENDANT (M.D., D.O., MIDWIFE, OTHER) SPECIFY
14d. CERTIFIER – NAME (TYPE OR PRINT)
14e. MAILING ADDRESS STREET OR R.F.D. NO. POST OFFICE STATE
15a. BURIAL, CREMATION, REMOVAL SPECIFY
15b. CEMETERY OR CREMATORY – NAME
15c. LOCATION (CITY, VILLAGE OR COUNTY) (STATE)
15d. DATE OF BURIAL, CREMATION OR REMOVAL MONTH DAY YEAR
16a. FUNERAL HOME – NAME
16b. FUNERAL HOME – ADDRESS
17a. DATE FILED BY LOCAL REGISTRAR MONTH DAY YEAR
17b. LOCAL REGISTRAR – SIGNATURE
18. MORTICIAN OR FUNERAL DIRECTOR – SIGNATURE

SUPPLEMENTARY INFORMATION

(This section not to be reproduced on certified copies unless specifically requested.)

19a. RACE OF FATHER SPECIFY
19b. RACE OF MOTHER SPECIFY
20. LEGITIMATE SPECIFY YES OR NO
21. BIRTH WEIGHT
22a. EDUCATION OF FATHER (SPECIFY HIGHEST GRADE COMPLETED)
ELEMENTARY (0,1,2, ... OR 8)
HIGH SCHOOL (1,2,3 OR 4)
COLLEGE (1,2,3,4, 5+)
22b. EDUCATION OF MOTHER (SPECIFY HIGHEST GRADE COMPLETED)
ELEMENTARY (0,1,2, ... OR 8)
HIGH SCHOOL (1,2,3 OR 4)
COLLEGE (1,2,3,4,5+)
23. PREVIOUS DELIVERIES – HOW MANY OTHER CHILDREN
ARE NOW LIVING
WERE BORN ALIVE NOW DEAD
WERE BORN DEAD (FETAL DEATH AT ANY TIME AFTER CONCEPTION)

SUPPLEMENTAL INFORMATION FOR MEDICAL AND HEALTH USE ONLY

24. DATE LAST NORMAL MENSES BEGAN MONTH DAY YEAR
25a. MONTH OF PREGNANCY PRENATAL CARE BEGAN (1ST, 2ND, ETC.) IF NONE SO STATE
25b. NUMBER OF PRENATAL VISITS (0, 1, 2, ETC.)
26a. DATE OF LAST LIVE BIRTH MONTH DAY YEAR
26b. DATE OF LAST FETAL DEATH MONTH DAY YEAR
27. COMPLICATIONS RELATED TO PREGNANCY DESCRIBE OR WRITE "NONE"
28. COMPLICATIONS NOT RELATED TO PREGNANCY DESCRIBE OR WRITE "NONE"
29a. COMPLICATIONS OF LABOR DESCRIBE OR WRITE "NONE"
29b. WAS LABOR INDUCED IF YES, METHOD
29c. OPERATIVE PROCEDURES DESCRIBE OR WRITE "NONE"
30. SEROLOGIC TEST FOR SYPHILIS SPECIFY YES OR NO
31. WAS MOTHER'S BLOOD TESTED FOR RH FACTOR SPECIFY YES OR NO
32. BIRTH INJURIES TO FETUS DESCRIBE OR WRITE "NONE"
33. CONGENITAL MALFORMATIONS OR ANOMALIES DESCRIBE OR WRITE "NONE"

BURIAL OR REMOVAL PERMIT ISSUED ______ 19 ______ SIGNATURE OF SUB REGISTRAR

BEST AVAILABLE COPY

Figure 32

Complete and return to:

Center for Health Statistics
Minnesota Department of Health
717 Delaware St., S.E.
Minneapolis, Minnesota 55440
(612) 296-5584

5

REPORT OF INDUCED ABORTION

PLEASE PRINT

SAMPLE

TYPE OF ADMISSION FACILITY ID CODE 1 ☐☐☐☐

1 = Inpatient 2 = Outpatient 3 = Clinic 4 = Other ____

PATIENT RESIDENCE *(Write in)*

City ____
County ____
State ____

MDH use only
12 ☐☐☐☐
16 ☐☐
18 ☐☐

AGE IN YEARS *(Birth Date Optional* Month Day Year *)* 20 ☐☐ Years

RACE/ETHNICITY 22 ☐

1 = White
2 = Black
3 = American Indian
4 = Hispanic
5 = Japanese/Chinese/Asian
6 = Other
[illegible] = Unknown

MARITAL STATUS 23 ☐

1 = Never Married
2 = Married Now
3 = Widowed
4 = Divorced
[illegible] = Separated
6 = Unknown

CONTRACEPTIVES USED?

1 = Never used any contraceptive method
2 = Have used but discontinued method
3 = Was using at conception *(Method failure — See 46 below*)*
4 = Unknown
5 = Interrupted use of usual method *(Human error — See 46 below*)*

28 ☐

[illegible] Total number of prior pregnancies to this woman *(a+b+c below)* 24 ☐
a. Total number of live births ☐
b. Fetal deaths, spontaneous abortions ☐
c. Number of prior induced abortions ☐

DATE OF ABORTION 29 ☐☐ Month ☐☐ Day ☐☐ Year

DATE OF LAST NORMAL MENSES (LMP) 35 ☐☐ Month ☐☐ Day ☐☐ Year

GESTATION WEEKS *(Physicians estimate of completed weeks post LMP)* 41 ☐☐ Weeks

ABORTION METHOD 43 ☐

1 = Suction curettage
2 = Sharp curettage
3 = Saline/fluid exch
4 = Prostaglandin
5 = Hysterectomy/otomy
6 = Combination *(Circle each)*
7 = Menstrual extr (− preg)
8 = Menstrual extr (+ preg)
9 = Laminaria & curettage (Dilation & evacuation)

COMPLICATIONS OR FAILURES *(Was patient hospitalized? Yes No [Circle one])* Briefly Note any other information 44 ☐

0 = None
1 = Hemorrhage (500 ml)
2 = Pelvic infection
3 = Fever (>38° C)
4 = Cervical injury
5 = Uterine perforation
6 = Retained tissue
7 = Continuing pregnancy
8 = Other *(Specify)* ____

Optional

RELIGIOUS PREFERENCE 1 = Prot 2 = Cath 3 = Jew 4 = Other 5 = None 6 = Unk 45 ☐

***CURRENT CONTRACEPTIVE** *(As indicated by 28 above)* 46 ☐

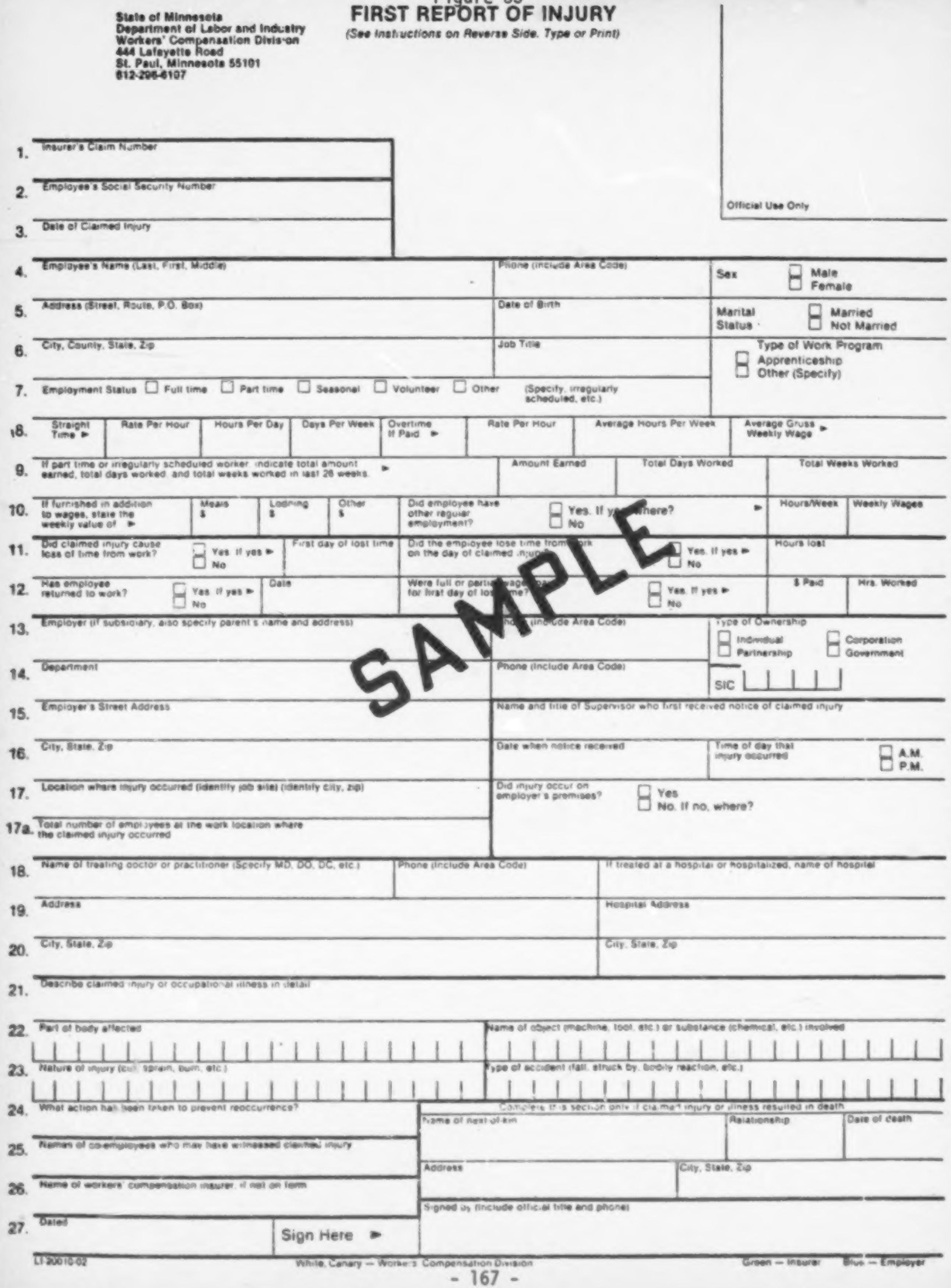
0 = None
1 = Rhythm
2 = Douche or Wthdrwl
3 = Foam
4 = Condom
5 = Foam + Condom
6 = Diaphragm
7 = IUD
8 = Pills
9 = Sterilization (M or F)
A = Suppositories
B = Injectables
C = Natural Family Planning
D = Other ____
E = Combination
F = Unknown

47 ☐☐☐☐☐☐☐☐☐☐☐☐

HE-01160-02 (4-81)

BEST AVAILABLE COPY

Figure 33



State of Minnesota
Department of Labor and Industry
Workers' Compensation Division
444 Lafayette Road
St. Paul, Minnesota 55101
612-296-6107

FIRST REPORT OF INJURY

(See Instructions on Reverse Side. Type or Print)

Official Use Only

1. Insurer's Claim Number

2. Employee's Social Security Number

3. Date of Claimed Injury

4. Employee's Name (Last, First, Middle) | Phone (include Area Code) | Sex ☐ Male ☐ Female

5. Address (Street, Route, P.O. Box) | Date of Birth | Marital Status ☐ Married ☐ Not Married

6. City, County, State, Zip | Job Title | Type of Work Program ☐ Apprenticeship ☐ Other (Specify)

7. Employment Status ☐ Full time ☐ Part time ☐ Seasonal ☐ Volunteer ☐ Other (Specify, irregularly scheduled, etc.)

8. Straight Time ► | Rate Per Hour | Hours Per Day | Days Per Week | Overtime If Paid ► | Rate Per Hour | Average Hours Per Week | Average Gross Weekly Wage ►

9. If part time or irregularly scheduled worker, indicate total amount earned, total days worked, and total weeks worked in last 26 weeks. ► | Amount Earned | Total Days Worked | Total Weeks Worked

10. If furnished in addition to wages, state the weekly value of ► | Meals $ | Lodging $ | Other $ | Did employee have other regular employment? ☐ Yes. If yes where? ☐ No ► | Hours/Week | Weekly Wages

11. Did claimed injury cause loss of time from work? ☐ Yes. If yes ► ☐ No | First day of lost time | Did the employee lose time from work on the day of claimed injury? ☐ Yes. If yes ► ☐ No | Hours lost

12. Has employee returned to work? ☐ Yes. If yes ► ☐ No | Date | Were full or partial wages paid for first day of lost time? ☐ Yes. If yes ► ☐ No | $ Paid | Hrs. Worked

13. Employer (if subsidiary, also specify parent's name and address) | Phone (include Area Code) | Type of Ownership ☐ Individual ☐ Partnership ☐ Corporation ☐ Government

14. Department | Phone (include Area Code) | SIC

15. Employer's Street Address | Name and title of Supervisor who first received notice of claimed injury

16. City, State, Zip | Date when notice received | Time of day that injury occurred ☐ A.M. ☐ P.M.

17. Location where injury occurred (identify job site) (identify city, zip) | Did injury occur on employer's premises? ☐ Yes ☐ No. If no, where?

17a. Total number of employees at the work location where the claimed injury occurred

18. Name of treating doctor or practitioner (Specify MD, DO, DC, etc.) | Phone (include Area Code) | If treated at a hospital or hospitalized, name of hospital

19. Address | Hospital Address

20. City, State, Zip | City, State, Zip

21. Describe claimed injury or occupational illness in detail

22. Part of body affected | Name of object (machine, tool, etc.) or substance (chemical, etc.) involved

23. Nature of injury (cut, sprain, burn, etc.) | Type of accident (fall, struck by, bodily reaction, etc.)

24. What action has been taken to prevent reoccurrence?

25. Names of co-employees who may have witnessed claimed injury

26. Name of workers' compensation insurer, if not on form

27. Dated | Sign Here ►

Complete this section only if claimed injury or illness resulted in death

Name of next-of-kin | Relationship | Date of death

Address | City, State, Zip

Signed by (include official title and phone)

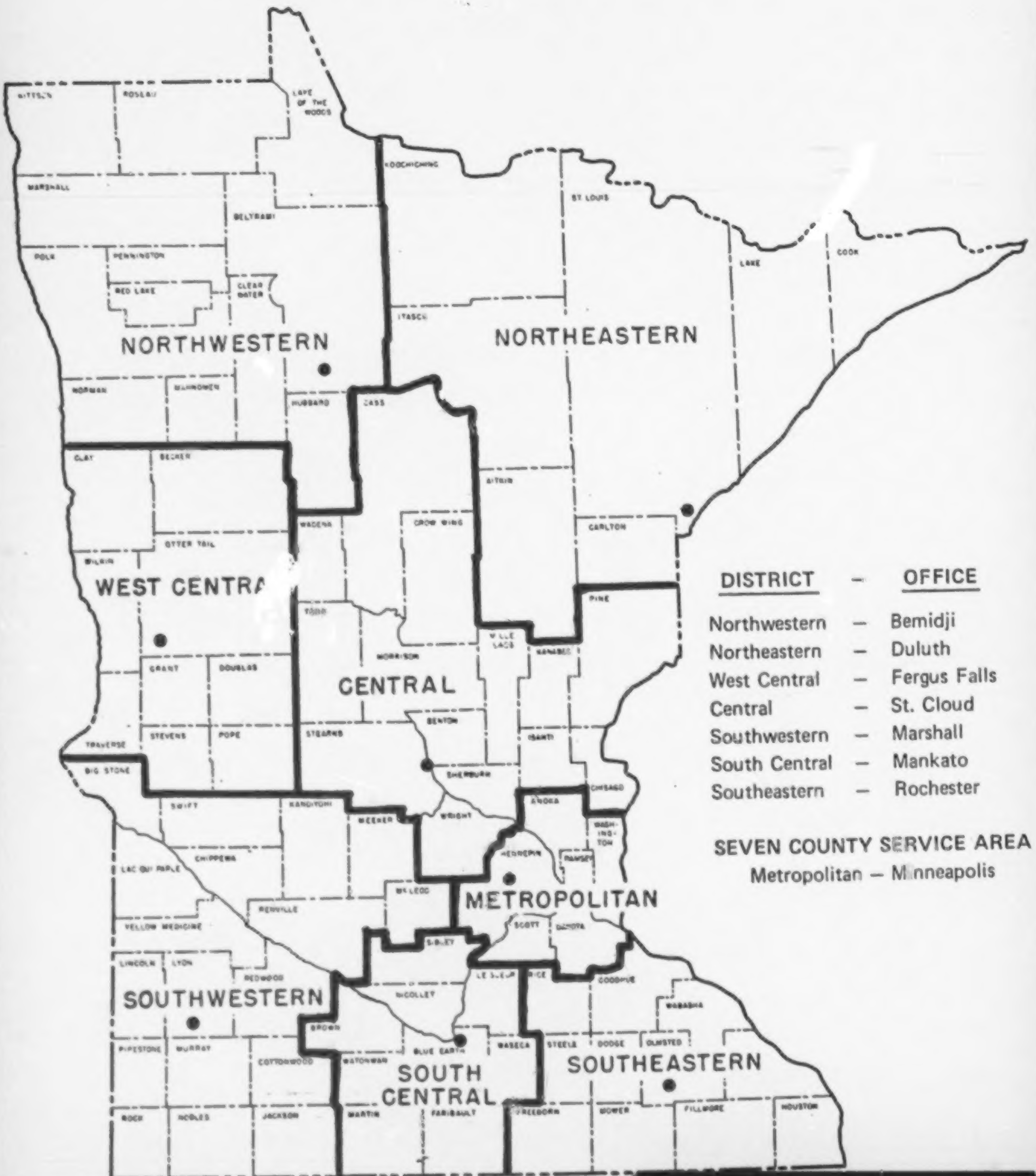
LI 20010-02

White, Canary — Workers' Compensation Division | Green — Insurer | Blue — Employer

SAMPLE

Figure 34

MINNESOTA DEPARTMENT OF HEALTH
HEALTH DISTRICTS AND OFFICES


KITTSON
ROSEAU
LAKE OF THE WOODS
MARSHALL
BELTRAMI
KOOCHICHING
ST LOUIS
LAKE
COOK
POLK
PENNINGTON
RED LAKE
CLEAR WATER
ITASCA
NORTHWESTERN
NORTHEASTERN
NORMAN
MAHNOMEN
HUBBARD
CASS
CLAY
BECKER
AITKIN
WADENA
CROW WING
CARLTON
OTTER TAIL
WILKIN
WEST CENTRAL
PINE
TODD
MILLE LACS
KANABEC
MORRISON
GRANT
DOUGLAS
CENTRAL
TRAVERSE
STEVENS
POPE
STEARNS
BENTON
ISANTI
BIG STONE
SHERBURNE
CHISAGO
SWIFT
KANDIYOHI
MEEKER
WRIGHT
ANOKA
WASH-ING-TON
CHIPPEWA
LAC QUI PARLE
HENNEPIN
RAMSEY
MC LEOD
METROPOLITAN
RENVILLE
YELLOW MEDICINE
SCOTT
DAKOTA
SIBLEY
LINCOLN
LYON
REDWOOD
LE SUEUR
RICE
GOODHUE
SOUTHWESTERN
NICOLLET
WABASHA
BROWN
PIPESTONE
MURRAY
BLUE EARTH
WASECA
STEELE
DODGE
OLMSTED
COTTONWOOD
WATONWAN
SOUTH CENTRAL
SOUTHEASTERN
ROCK
NOBLES
JACKSON
MARTIN
FARIBAULT
FREEBORN
MOWER
FILLMORE
HOUSTON

DISTRICT	–	OFFICE
Northwestern	–	Bemidji
Northeastern	–	Duluth
West Central	–	Fergus Falls
Central	–	St. Cloud
Southwestern	–	Marshall
South Central	–	Mankato
Southeastern	–	Rochester

SEVEN COUNTY SERVICE AREA

Metropolitan – Minneapolis